FELATED CORRESPONDENCE

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1	UNITED STATES OF AMERICA
2	NUCLEAR REGULATORY COMMISSION = 01/20 of 13 1981 . EI
3	Branche Erectary Field
4	and the second s
5	BEFORE THE ATOMIC SAFETY AND LICENSING BOARD
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8	In the Matter of)) Docket No. 50-275
9	PACIFIC GAS AND ELECTRIC COMPANY) Docket No. 50-323
10	Diablo Canyon Nuclear Power Plant) (Full Power Proceedings) Units Nos. 1 and 2
11	(E) BERNE (E)
12	17 4 SED 94/10 16
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14	APPLICANT PACIFIC GAS AND ELECTRIC COMPANY'S
15	ANSWERS TO GOVERNOR EDMUND G. BROWN JR'S
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17	INTERROGATORY NO. 1:
18	(a) Describe and identify each study, evaluation,
19	assessment or other document in the possession, custody or
20	control of PG&E dealing with or relating in any way to the
21	time(s) necessary for and/or the feasibility of protective
22	actions in the event of a radiological emergency. By way of
23	example only, "protective actions" include an evacuation of
24	the Diablo Canyon site and adjoining areas, including the
25	basic emergency planning zone, the extended planning zone,
26	and the ingestion pathway zone. DS03
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1 (b) Describe which of such documents are 2 completed and which are underway. For those underway, 3 state: (1) what has been completed; (2) what remains to be completed; and (3) the schedule for completion of the 4 5 remaining work. 6 7 RESPONSE TO INTERROGATORY NO. 1: 8 "Manual of Protective Action Guides and Protective (a) 1. 9 Actions for Nuclear Incidents," U.S. Environmental Protection Agency (EPA-520/1-75-001), September 10 11 1975 (revised June 1980). 12 "Reactor Safety Study," WASH-1400, October 1975. 2. "Accidental Radioactive Contamination of Human 13 3. Food and Animal Feeds," U.S. DHEW (DHHS)/FDA, 14 15 Federal Register, December 15, 1978 (43 FR 58790). "Public Protection Strategies for Potential 16 4. 17 Nuclear Reactor Accidents - Sheltering Concepts 18 with Existing Public and Private Structures," Sandia Laboratory (SAND 77-1725). 19 "Examination of Offsite Radiological Emergency 20 5. Measures for Nuclear Reactor Accidents Involving 21 Core Melt," Sandia Laboratory (SAND 78-0454). 22 23 111 24 111 25 111 26

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1	6.	"Protective Action Evaluation Part II, Evacuation
2		and Sheltering as Protective Actions Against
3		Nuclear Accidents Involving Gaseous Releases,"
4		U.S. Environmental Protection Agency (EPA
5		520/1-78-001 B).
6	7.	"Evacuation Times Assessment for the Diablo Canyon
7		Nuclear Power Plant," Alan M. Voorhees &
8		Associates, September 1980.
9	8.	"Emergency P_anning Zones for Serious Nuclear
10		Power Plant Accidents," State of California Office
11		of Emergency Services, November 1980.
12	9.	Draft "State of California Nuclear Power Plant
13		Response Plan," January 1981 (revised March 1981).
14	10.	Draft "State of California Department of Health
15		Services Implementing Procedures - Volume II,"
16		March 1981.
17	11.	Draft "San Luis Obispo County Nuclear Power Plant
18		Emergency Response Plan," May 1981.
19	12.	GandE Diablo Canyon Power Plant Units 1 & 2
20		Emergency Plan, August 1981.
21	13.	PGandE Diablo Canyon Power Plant Units 1 & 2
22		Emergency Procedure RB-10, "Protective Action
23		Guidelines," September 1, 1981.
24	14.	TERA Report, "Earthquake Emergency Planning at
25		Diablo Canyon," September 2, 1981.
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-3-

1 (b) All of the above documents are complete 2 except numbers 9, 10, and 11, the completion dates of 3 which are unknown. 4 5 6 7 8 INTERROGATORY NO. 2: 9 (a) Identify and describe the criteria that PG&E 10 employees are trained to apply in determining whether to 11 recommend evacuation (cnsite and/or offsite) versus 12 sheltering. 13 (b) Identify and describe all analyses or other 14 documents which support or in any way relate to these 15 criteria. 16 (c) Identify and describe all training manuals, 17 operating procedures, or other instructive or educational 18 materials that relate in any way to these criteria. 19 (d) Describe all equipment available to PG&E 20 and/or offsite response personnel to assess and predict the 21 likely consequences of an accidental radioactive release 22 from Diablo Canyon. Include in your response a description 23 of the onsite meterological tower and computer used to 24 determine real-time atmospheric dilution factors. 25 111 26 111

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RESPONSE TO INTERROGATORY NO. 2:

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(a) Criteria for plume exposure pathway
protective action recommendations for the general
public are based on the "Manual of Protective Action
Guides and Protective Actions for Nuclear Incidents
(EPA-520/1-75-001). For the plume exposure pathway,
the principal protective actions recommended for the
public would be sheltering and/or evacuation.

9 The effectiveness of evacuation in limiting a 10 radiation dose is a function of the time required to 11 evacuate. In cases where there is no time to evacuate 12 prior to arrival of the plume, or where the projected 13 evacuation time and time before plume arrival are 14 nearly equal, the dose reduction benefit of sheltering 15 vs. evacuation and being overtaken by the passing plume 16 would be evaluated on a case-by-case basis.

17 On-site protective action criteria are based 18 on minimizing exposures for non-essential site 19 personnel. Evacuation is the principal protective 20 action and is considered at the Alert emergency action 21 level when such action can prevent significant 22 exposure. Evacuation of non-essential personnel is 23 generally conducted at the Site Emergency level and is 24 automatic at the General Emergency level. Sheltering 25 would be used as a protective action for non-essential 26 personnel in the event the dose expected during

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1	evacuation is higher than that which would be received
2	in a shielded or protected area.
3	(b) See response to interrogatory 1(a).
4	(c) See response to interrogatory 1(a).
5	(d) See Section 7.3 of the Diablo Canyon Power
6	Plant Emergency Plan and Section 2.3 of the FSAR.
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11	INTERROGATORY NO. 3:
12	Identify and describe the public information
13	program for emergency planning and preparedness proposed by
14	PG&E to support PG&E's application for a full power
15	operating license for the Diablo Canyon facility. Identify
16	and describe all documents which in any way relate to this
17	public information program including, without limitation,
18	any brochures, statements to be published in news media or
19	broadcast on radio or TV, materials to be sent to PG&E's
20	customers (enclosed in bills or otherwise), or public
21	notices (in draft or final form), which constitute any part
22	of or relate in any way to the public information program.
23	
24	RESPONSE TO INTERROGATORY NO. 3:
25	Pacific Gas and Electric Company has initiated a
26	variety of programs designed to effectively notify the
11	-6-

public about appropriate protective actions in the event of a plant emergency.

These efforts can be categorized as notification during an emergency and an ongoing community education/awareness project.

MOTIFICATION DURING AN EMERGENCY

7 There are two levels of notifications --8 non-general emergency and general emergency.

Non-General Emergency

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If an unusual event reaches an alert stage and the San Luis Obispo County Emergency Operations Center and the Media Center at Cuesta College are activated, the County Public Information Officer will be issuing periodic news releases on the status of the emergency, the plant, and protective measures necessary, if any.

16 These releases and the press conferences will be a 17 timely and effective way of notifying the public, especially 18 since the local media -- including the radio and television 19 stations -- will be able to disseminate the information 20 quickly. During the recent compressed time field exercise 21 conducted by NRC and FEMA to judge the on-site and off-site 22 emergency response plans, news conferences were held and 23 news statements released at least every hour.

Before the Media Center is activated, Pacific Gas and Electric Company is prepared to alert the public, through major local area and regional broadcast and other

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media, of any actions the public might prepare for -- such as sheltering or evacuation.

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The public can be referred to the Nuclear Emergency Response Plan Booklet. which will be hand-delivered to every residence, place of fusiness, public institution and commercial establishment in the Emergency Planning Zone, with other distribution throughout the county.

9 Residents and others can also be referred to Page 10 A-4 of the San Luis Obispo County telephone book Survival 11 Guide (to be published in October 1981). (Please see the 12 following Ongoing Community Education Awareness section for 13 more information.)

Both the booklet and the telephone page contain basic information on radiation, the Diablo Canyon plant, nuclear power, sheltering and evacuation. Once the county approves its Nuclear Emergency Response Plan, more specific information on evacuation routes, reception and care centers, and other county elements of the emergency plan also will be available.

General Emergency

If a general emergency (off-site radiological release) is declared, the Early Warning System (EWS) will be activated. The sounding of the sirens (and other measures to reach remote and/or transient populations) will alert the populace to tune their radios or televisions to

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the Emergency Broadcasting System (EBS) station for further direction. The public will know to do this because of the ongoing community education program PGandE has begun and through county educational efforts.

The message on the EBS will be written and released by the county. Other area radio and television stations will have the capability to relay messages soon after the EBS broadcast. The messages will be repeated or changed as necessary at the direction of the county.

In addition to the EBS information, the media center will still be operating and the public will be receiving messages and information based on the statements released and news conferences held there.

ONGOIN

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ONGOING COMMUNITY EDUCATION/AWARENESS

PGandE has developed a comprehensive community
education and information plan to help ensure residents of
the emergency planning zone are informed.

At this point in their development, none of these materials specifically refers to information that will be contained in the county's Nuclear Emergency Response Plan for its residents. Once the county adopts a final version of this plan, the materials will be updated to reflect the information in the county plan.

In general, updates or revisions are planned annually, with the exception of the "Diablo Canyon Newsletter" -- a quarterly publication.

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The program elements are:

1

2	Emergency Resp	oonse Information: Booklet on Diablo Caryon
3		Nuclear Power Plant and how it works, with
4		information on radiation, what the public
5		should do in an emergency, locations of
e		emergency care centers and evacuation routes
7		(once county plan is approved), and a phone
8		number to call for further information.
9	Distribution:	Door-to-door to all households, businesses,
10		hotels, motels, and public institutions in
11		the Emergency Planning Zone (EPZ). To
12		appropriate public officials. By mail to
13		residents in extended planning zone. Spanish
14		language version to be available, with notice
15		in Spanish and English in English version
16		that a Spanish language booklet is available,
17		with instructions on how to obtain it.
18		Booklets will be furnished to all new
19		customers. Booklets will also be available
20		at all PGandE, state, county, and local
21		government offices in the county.
22	Frequency:	Annually. Distribution will be the same as
23		in the first year except that mail delivery
24		will be used instead of door-to-door.
25	Support.	Advance radio, TV, print advertising,
26		publicity, news releases, and local PGandE

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1		bill inserts will call attention to the
2		distribution and offer copies. Display in
3		local PGandE offices will also be used, with
4		follow-up ads and publicity.
5	Emergency page	s in telephone book, will give instructions to
6		the public on how to respond in an emergency
7		and the place to call or write for further
8		information. It will appear as page A-4 of
9		the 1982 directory (October 1981).
10	Distribution:	All telephone subscribers in San Luis Obispo
11		County.
12	Frequency:	Annually in each new book beginning October
13		1981.
14	Support:	News releases, features in a new Diablo
15		Canyon newsletter to the community (see
16		below), notices posted in hotels, motels, and
17		public recreational areas. All will call
18		attention to the phone book as a source of
19		information on emergency planning.
20	Public Service	nnouncements (PSAs) will be on local radio
21		and television. These PSA's will call atten-
22		tion to the telephone book information, on
23		the need to know what to do in the event of
24		an emergency and on other aspects of the
25		emergency response plan. Stations will be
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1		provided with pre-recorded tapes and scripts,
2		or both.
3	Distribution:	All radio and TV outlets, including cable, in
4		San Luis Obispo County.
5	Frequency:	As appropriate. New PSAs will be furnished
6		at least annually.
7	Posted Signs:	Wil' be located in public places such as
8		parks, beaches and recreation areas. These
9		will also be suitable for use in schools,
10		hospitals, public entertainment centers,
11		hotels, and motels.
12	Distribution:	At sites located within the EPZ, to be
13		selected by the county.
14	Frequency:	Updated as needed.
15	Emergency dire	ction sheet will be provided for restaurants,
16		hospitals and other institutions. These will
17		not be posted for public viewing but for the
18		information of institutional managers in
19		advising guests or occupants what to do in an
20		emergency.
21	Diablo Canyon	Newsletter: This will be a periodic mailing
22		to all homes and businesses in the EPZ,
23		giving educational information on nuclear
24		power, Diablo Canyon, radiation and health,
25		emergency planning, shelters, etc. It will
26		also contain news items about progress and

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1 new developments at Diablo Canyon. Its 2 purpose will be to keep the community updated 3 on new developments in emergency planning, 4 sustain awareness of the plan, build 5 confidence in the safety of the plant by 6 increasing the community's familiarity with 7 it and to lessen fears about radiation by 8 providing regular information on the subject. 9 It will give a place to call or write for 10 additional information. 11 Distribution: By mail, to all residents and businesses 12 within the EPZ. 13 Frequency: Quarterly, possibly more frequently. 14 Media backgrounders: These will be conducted at the place 15 of business of the SLO County media. They 16 will be formal programs, beyond the normal 17 regular contacts, and will cover emergency 18 plans, information concerning radiation and 19 other nuclear subjects and how information 20 will be handled during a plant emergency. 21 Distribution: To all interested radio, television, and 22 print media throughout the PGandE service 23 area, and to media in Los Angeles. Seminars 24 may prove more suitable for ou -of-county 25 media. 26 Frequency: At least annually.

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1	Speakers: Technical speakers from the plant's staff
2	will be utilized as speakers within the
3	surrounding communities.
4	Nuclear exhibits: Nuclear information displays, including
5	the current Nuclear exhibit, will be set up
6	in Los Padres district offices, covering,
7	among other subjects, radiation.
8	Mobile Environmental Monitoring Lab: (MEML) Suitable for
9	inspection by small groups.
10	Special audiences: Using speakers, slide shows and
11	exhibits, outside experts, special printed
12	material, audio-visual presentations, etc.,
13	regular educational contacts will be
14	maintained, with the community, government
15	officials, public schools, clergy, service
16	clubs, health agencies and societies,
17	employees and other special agencies as
18	required or requested.
19	이는 그는 것은 것이 같은 것이 같은 것이 같다. 같은 것이 많은 것이 같은 것이 같이 같은 것이 같이 없다. 것이 같은 것이 같은 것이 같은 것이 같은 것이 같은 것이 없다. 것이 같은 것이 같은 것이 같은 것이 같은 것이 같은 것이 없다. 것이 같은 것이 같은 것이 없다. 것이 같은 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없 않는 것이 없는 것이 않는 것 않 않는 않는 것이 않 않 않이 않이 않이 않이 않이 않이 않이 않는 것이 않이
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23	INTERROGATORY NO. 4:
24	Has PG&E commenced its full power public informa-
25	tion program so, describe each and every step taken
26	thus far and the schedule for remaining steps. If not,
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decr	cribe PG&E's schedule f				
uesi	stabe road a schedule i	for co	mmend	cement	and full
imp]	lementation of that progr	am.			
RESI	PONSE TO INTERROGATORY NO	. 4:			
	Yes. As seen by	the at	tach	ed sch	edule (as of
mid.	-August), many elements of	of the	prog	gram ou	tlined in the
ansv	wer to interrogatory No.	3 are	comp	leted a	and in use. In
	ition, see answers to pre				
	Joint Intervenors.				
	EMERGENCY RES	SPONSE I	NFORM	ATION	
	Project	Proje		% Done	Status
1.	Packlet on DCDD & Frances			75	Trut bains and a
	Booklet on DCPP & Emergency	15	Dec	15	Text being revised.
	Response Plan writing, printing	15	Dec	75	New layout made.
2.	Response Plan writing,		Dec	10	New layout made.
2.	Response Plan writing, printing	14		10	New layout made. Awaiting English vers:
2.	Response Plan writing, printing Above in Spanish Distribute booklet	14 19	Aug	10 5	New layout made. Awaiting English vers: Translators ready.
2. 3.	Response Plan writing, printing Above in Spanish Distribute booklet door-to-door	14 19 1	Aug Aug	10 5 <u>100</u>	New layout made. Awaiting English vers: Translators ready. In holding pattern.
2. 3. 4.	Response Plan writing, printing Above in Spanish Distribute booklet door-to-door Phone book emergency page (a) Radio, TV, PSAs on	14 19 1 20	Aug Aug July	10 5 <u>100</u>	New layout made. Awaiting English vers: Translators ready. In holding pattern. <u>Complete</u> To Printer.
2. 3. 4. 5.	Response Plan writing, printing Above in Spanish Distribute booklet door-to-door Phone book emergency page (a) Radio, TV, PSAs on booklet	14 19 1 20 1	Aug Aug July July	10 5 <u>100</u> <u>100</u>	New layout made. Awaiting English verse Translators ready. In holding pattern. <u>Complete</u> To Printer. <u>Complete</u> . In holding pattern. (A) copy and layout
2. 3. 4. 5.	Response Plan writing, printing Above in Spanish Distribute booklet door-to-door Phone book emergency page (a) Radio, TV, PSAs on booklet News release on booklet	14 19 1 20 1	Aug Aug July July Oct	10 5 <u>100</u> <u>100</u> 70	New layout made. Awaiting English vers: Translators ready. In holding pattern. <u>Complete</u> To Printer. <u>Complete</u> . In holding pattern.
2. 3. 4. 5.	Response Plan writing, printing Above in Spanish Distribute booklet door-to-door Phone book emergency page (a) Radio, TV, PSAs on booklet News release on booklet	14 19 1 20 1 1	Aug Aug July July Oct	10 5 <u>100</u> <u>100</u> 70 50	New layout made. Awaiting English version Translators ready. In holding pattern. <u>Complete</u> To Printer. <u>Complete</u> . In holding pattern. (A) copy and layout developed. In approval.

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	Project		oje Due	ct	% Done	Status
9.	News release on phone page		1	Oct	50	PTT to do
10.	(a) Emergency Plan signs	(a)	1	Nov	10	Awaiting County approval of plan. Moñtana de Oro sign in clearance to NPO
	(b) Arrange posting	(b)	15	Dec	0	in the first of the
11.	PSAs on Plan		30	July	50	Awaiting County approval of plan.
12.	(a) Develop and		1	Nov		
	(b) distribute posted instructions for motels,		15	Dec	25	Awaiting County approval of plan.
13a.	Write notification to LPZ		15	July	100	Completed.
	residents of Emergency procedures.					
13b.	Distribute notification.		15	Aug	50	New due date to verify identifi- cation of LPZ residents
						residents
14a.	Slide show on response plan		15	July	100	Completed.
14b.	Mini version		1	Asg	100	Completed-being sho
14c.	Speakers support nuclear power		15	Sept	20	New program- approved.
15.	Speeches on plan, radiation		15	July	100	Complete
						week.
16.	Videotape on		30	July	100	Complete-Showing
	A. Plan B. Radiation				100	Complete-Showing
					100	comprete-showing
17.	Overall video tape on DCNPP		15	Sept	1	Writing script.
	Develop and Distribute direction			Nov	10	Awaiting county
100.	for instructions		19	Oct	20	approval of plan
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monitoring lab (MEML)8. Publicity on MEML6 May100Complete.9. Displays in area local offices1 Aug100Completed10. General Informatic, special audiences a. Doctors0ngoingb. Schools1 Aug100Completec. Government Officials14 Aug 1 Aug100Completed. Clergy e. Employees f. Community leaders1 Apr100Complete11. Slide show and talk on general nuclear1 Apr100Complete12. Advertising on nuclear76Ongoing	<u></u>	Project	Projec	ct	% Done	Status
3. Press A.c for (a) backgrounders, (b) drill 20 July 100 Aug 75 In progress Holding Complete In progress Holding 4. Plant tours 15 Aug 70 Holding Complete Complete 5. Train speakers on D.C./nuclear 14 Aug 100 Holding Complete Complete 6. Community seminars on nuclear and radiation 14 Aug 100 Holding Complete 7. Mobile environmental monitoring lab (MEML) 17 Apr 100 Holding Showings complete 8. Publicity on MEML 6 May 100 Holding Complete 9. Displays in area local offices 1 Aug 100 Holding Complete 10. General Informatic, special audiences a. Doctors 1 Aug 100 Holding Complete All contacts complete 10. General Informatic, special audiences a. Doctors 1 Aug 100 Holding Complete All contacts complete 11. Schools 1 Aug 100 Holding Complete 12. Advertising on nuclear 76 Ongoing Ongoing 13. Staff backgrounding 22 June 100 Sessions complete	1.	Quarterly Newsletter	20	July	100	Completed.
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 9. Displays in area local offices 1 Aug 100 Completed 10. General Informatic, special audiences a. Doctors b. Schools c. Government Officials d. Clergy e. Employees f. Community leaders 11. Slide show and talk on general nuclear 12. Advertising on nuclear 13. Staff backgrounding 14 Aug 100 Complete Ongoing 100 Complete Ongoing-% 100 Complete 100 Complete Ongoing-% 100 Complete 100 Complete 11. Slide show and talk on general nuclear 12. Advertising on nuclear 13. Staff backgrounding 14. Aug 100 Complete 11. Slide show and talk on general nuclear 12. Advertising on nuclear 13. Staff backgrounding 14. Slide show and talk 14. Aug 100 Complete 100 Complete 100 Complete 11. Slide show and talk on general nuclear 12. Advertising on nuclear 13. Staff backgrounding 14. Slide show and talk 14. Slide show and talk 14. Aug 15. Staff backgrounding 16. Sessions complete 	7.		17	Apr	<u>100</u>	Showings complet
 10. General Informatic., special audiences a. Doctors b. Schools c. Government Officials 1 Aug 100 All contacts complete 0 ngoing-% delete 0 ngoing % delete 0 ngoing % delete d. Clergy 1 Aug 100 Complete 0 ngoing % delete d. Clergy 1 Aug 100 Complete 0 ngoing % delete 11. Slide show and talk on general nuclear 12. Advertising on nuclear 13. Staff backgrounding 22 June 100 Sessions complete 	8.	Publicity on MEML	6	May	100	Complete.
special audiences a. Doctors b. Schools1 Aug100 100Complete All contacts complete Ongoing-% delete Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing 	9.	Displays in area local offices	1	Aug	100	Completed
a. Doctors1 Aug100 100Complete All contacts completeb. Schools1 Aug100All contacts completec. Government Officials14 Aug 1 Aug100Complete Ongoing-% deleted. Clergy e. Employees f. Community leaders14 Aug 1 Aug100Complete Ongoing Ongoing Ongoing Ongoing11. Slide show and talk on general nuclear1 Apr100Complete Ongoing Ongoing Ongoing Ongoing Ongoing12. Advertising on nuclear76Ongoing13. Staff backgrounding22 June100Sessions complete	10.		-	-		Ongoing
b. Schools1 Aug100All contacts complete Ongoing-% delete Ongoing Ongoing Ongoing Ongoing Ongoing-% deletec. Government Officials14 Aug 1 Aug100Complete Ongoing-% delete Ongoing Ongoing Ongoing Ongoing-% delete11. Slide show and talk on general nuclear1 Apr100Complete Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing12. Advertising on nuclear76Ongoing13. Staff backgrounding22 June100Sessions complete			1	Aug	100	Complete
c. Government Officials14 AugOngoing-% deleted. Clergy1 Aug100Completee. Employees1 Aug100Completef. Community leaders1 Apr100Complete11. Slide show and talk on general nuclear1 Apr100Complete12. Advertising on nuclear76Ongoing13. Staff backgrounding22 June100Sessions complete		b. Schools			And the second second second	All contacts
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 e. Employees f. Community leaders 11. Slide show and talk on general nuclear 12. Advertising on nuclear 13. Staff backgrounding 14. Staff backgrounding 14. Staff backgrounding 14. Staff backgrounding 15. Staff backgrounding 16. Staff backgrounding 17. Staff backgrounding 18. Staff backgrounding 19. Staff backgrounding 10. Staff backgrounding 11. Slide show and talk on general nuclear 12. Advertising on nuclear 13. Staff backgrounding 14. Staff b					100	
f. Community leadersOngoing-% delete11. Slide show and talk on general nuclear1 Apr100Complete12. Advertising on nuclear76Ongoing13. Staff backgrounding22 June100Sessions complete						
general nuclear 12. Advertising on nuclear 13. Staff backgrounding 22 June 100 Sessions complet						Ongoing-% delete
12. Advertising on nuclear76Ongoing13. Staff backgrounding22 June100Sessions complet	11.		1	Apr	100	Complete
13. Staff backgrounding 22 June 100 Sessions complet		general nuclear				
2월 일 방법에 다 공격에 실패했다. 것은 것은 것은 것이 지금 것을 얻는 것을 하는 것이 없다.	12.	Advertising on nuclear			76	Ongoing
14. Selected Staff to PWR School 1 Aug 100 Completed	13.	Staff backgrounding	22	June	100	Sessions complet
	14.	Selected Staff to PWR School	1	Aug	100	Completed

GENERAL EMERGENCY RESPONSE INFORMATION

	Project	Proje	ct	% Done	Status
1.	Develop plan as per NUREG-0654	4	Feb	<u>100</u>	Completed and approved
2.	Select media center and get approval	1	July	<u>100</u>	Completed
3a.	Secure media center	15	Aug	100	Completed
	Rehabilitate annex		Aug	100	Completed
чс.	Secure alt. media center	15	July	100	Completed
4.	Staff up	15	Apr	100	Completed
5.	Phones and other communications	. 1	Aug	68	Installation underway.
	Hard copy communications		July		Completed
					Training continuing
6.	Employee information plan	30	July	100	Completed
7.	Plan info delivery to	15	June	100	Recommendation made
	PG&E Offices				to NPE and management
8.	Clerical services	20	July	100	Completed
9.	A-V, photo services	14	Aug	100	Completed
10.	Rumor control center, SLO (Public Infor Center)	14	Aug	100	Completed
11.	Training staff on ERP	14	Aug	85	Ongoing
12.	Communications Equip.	1	Aug	80	Progress-waiting on PTT
13.	Visuals	20	July	87	Proceeding
14.	Develop with SLO County EBS	1	Aug	100	Turned over to
	radio-TV messages and get commitments.				SLO Co. 7/28.
15.	Develop timely exchange of	1	Aug	80	Third meeting
	info between spokespersons				set for 8/8/81
111					

	Project	Project Due	% Done	Status
16.	Prepare public info program for site review team and EWS task force approval, including mailers for billings, telephone book inserts, briefings, etc.	1 Aug	40	Being developed
17.	Implement PI plan for County EWS. Prepare and implement media programs	l Aug	35	First release mailed 7/7/81
18.	Provide area phone number on 24 hour basis	1 Aug	<u>100</u>	Complete
INT	ERROGATORY NO. 5:			
INT	ERROGATORY NO. 5: (a) Identify and de	escribe e	ach and	l every drill or
exe	(a) Identify and de	elating	to or t	cesting all or
exe any	(a) Identify and de rcise which has occurred r	elating offsite e	to or t mergenc	testing all or by preparedness
exe any to	(a) Identify and dencise which has occurred r part of the PG&E and/or of	elating offsite e uties und	to or t mergenc	testing all or by preparedness
exe any to	(a) Identify and dencise which has occurred r part of the PG&E and/or of implement or carry out du	elating offsite e uties und ans.	to or t mergenc ler the	testing all or y preparedness onsite and
exe any to off	(a) Identify and de rcise which has occurred r part of the PG&E and/or o implement or carry out du site emergency respon e pla	elating offsite e uties und ans.	to or t mergenc ler the	testing all or y preparedness onsite and
exe any to off	 (a) Identify and deprive the second of the PG&E and/or of the PG&E and/or of the provide the site emergency response plates (b) Identify all path drill or exercise. 	elating offsite e uties und ans. articipan	to or t mergenc ler the ts in a	testing all or by preparedness onsite and and observers of
exe any to off eac	 (a) Identify and deprecise which has occurred r part of the PG&E and/or of implement or carry out dusite emergency response plate (b) Identify all path drill or exercise. (c) Identify and d 	elating o offsite e uties und ans. articipan escribe a	to or t mergenc ler the ts in a all wri	testing all or y preparedness onsite and and observers of tten critiques
exe any to off eac and	 (a) Identify and deprecise which has occurred r part of the PG&E and/or of implement or carry out dusite emergency response plate (b) Identify all path h drill or exercise. (c) Identify and d other documents (includit 	elating offsite en offsite en uties und ans. articipan escribe a ing photo	to or t mergence der the ts in a all wri ographs	testing all or y preparedness onsite and and observers of tten critiques and motion
exe any to off eac and pic	 (a) Identify and deprecise which has occurred report of the PG&E and/or of implement or carry out dusite emergency response plate (b) Identify all path drill or exercise. (c) Identify and deprecise of the documents (including tures) which relate in an article in an article in article in an article in artin article in article in article in article in article in artin	elating offsite en offsite en uties und ans. articipan escribe a ing photo	to or t mergence der the ts in a all wri ographs	testing all or y preparedness onsite and and observers of tten critiques and motion
exe any to off eac and pic	 (a) Identify and deprecise which has occurred report of the PG&E and/or of implement or carry out dusite emergency response plate (b) Identify all path drill or exercise. (c) Identify and deprecise of the documents (including tures) which relate in an arcises. 	elating offsite en offsite en uties und ans. articipan escribe a ing photo	to or t mergence der the ts in a all wri ographs	testing all or y preparedness onsite and and observers of tten critiques and motion

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1	RESPONSE TO INTERROGATORY NO. 5:
2	Drills or exercises have been conducted at
3	three levels: (i) corporate emergency response;
4	(ii) onsite, and (iii) integrated.
5	
6	(a)(i) Practical application of concepts introduced
7	in formal emergency response classroom training
8	was achieved through Table-Top walkthrough
9	sessions, actual simulations or drills and the
10	full FEMA exercise. These activities were
11	structured to first test small portions of the
12	emergency response organization, then integrate
13	these responses in larger scale walkthroughs,
14	drills, etc.
15	Walkthrough sessions involved "round table"
16	group discussions utilizing postulated accident
17	scenarios to identify and review appropriate
18	emergency response actions. Simulations, drills,
19	and the FEMA exercise utilized postulated accident
20	scenarios that were applied to test emergency
21	responses in an actual fie ' environment.
22	A detailed schedule dentifying participation
23	of the Corporate Emergency Response Organization
24	(CERO) in walkthrough sessions, simulations,
25	drills and the FEMA exercise is provided in
26	Attachment I.
1	-20-

1	(b)(i)	Participants in walkthrough sessions,
2		simulations, drills, and the FEMA exercise were
3		shown as needed from CERO personnel lists
4		established in respective Corporate Emergency
5		Response Plan (CERP) implementing procedures.
6		Attachment II provides a current overall listing
7		of CERO personnel. It is impossible to
8		individually identify all participants in each
9		drill or exercise since such comprehensive data
10		was not collected at the time. The vast majority
11		of the persons identified have participated in the
12		drills.
13		EDS Nuclear Inc. provided personnel to
14		observe walkthrough sessions and simulations
15		involving the CERO. These individuals are listed
16		in Attachment III.
17	(c)(i)	EDS Nuclear Inc. provided critiques of the
18		CERO walkthrough sessions and simulations. These
19		critiques as well as scenarios generated to
20		support these activities are listed in Attachment
21		IV and are available as discovery documents.
22	111	
23	///	
24	111	
25		
26		

-21- .

1		ATTACHMENT I	
2		SCHEDULE OF CERO PARTICIPATION	
3	Drill	Participating Departments	Date Conducted
4	Walkthrough 3A	Entire Emergency Response Organization	3-20-81
5	Walkthrough 3B	Security, Personnel Relations	3-23-81
7	Walkthrough 3C	Communications	3-25-81
8	Walkthrough 3D	Materials General Construction	3-27-81
9		Eng. & Tech. Support Div. Support Quality Assurance	
10	Walkthrough 3E	Radiological Analysis and Protection	3-30-81
12	Walkthrough 3F	Gov. Relations	4-1-81
13		Public Relations Law	
14		Insurance Safety, Health and Claims	
15	Utility Corporate Training	PGandE State OES FEMA	4-2-81
17		SLO County Stone & Webster	
18		Voorhees	
19	Make-Up	Individuals from: Nuclear Projects Public Information	6-2-81
20		Quality Assurance	
21	Simulation 4A, 4B, 4C	Security Personnel Relations, Communications	5-2-81
22	Simulation 4D	Materials, General Construction,	5-5-81
23		Engr. & Tech Support, Division Support	
25		Quality Assurance	
26	Simulation 4E	Radiological Analysis and Protection	5-8-81

1		ATTACHMENT II			
2 CERO PERSONNEL					
3					
4	CWAllen RRAlvea	JRHerrera JBHoch	GSPruett		
	MRAmerio	GNHorne	WTRapp CERalston		
5	GHAster	RCHowe	WARaymond		
	RSBain	KHHuston	HWReynolds		
6	RWBarbey	AJinkerson	RWRichardson		
	WRBarnes	WBKaefer	CLRichmond		
7	DJBaxter	RLKelmenson	SPRobison		
	LCBeanland	DLKennedy	JVRocca		
8	ALBechtold	WJKeyworth	BERoddick		
	RPBenton	EBLangley, Jr.	GMRueger		
9	RVBettinger	BSLew	GCRussell		
	GABlanc	CALewis	RRRutkowski		
10	JVBoots	HLiu	BFSadler		
	HEBrennan	RFLocke	BTSaenz		
11	SGBrown	RWLorenz	CGSarkiaian		
	PCBurgess	DGLubbock	COSchriel		
12	LBCarter	LGLunsford	JOSchuyler		
	BJCasey	ANLyon	GNScourkes		
13	LACole	JMacCormick	DPSerpa		
	DCorona	GAManeatis	JASexton		
14	PACrane	CKMaxfield	BWShackleford		
	GWCryer	BMcCloskey	DRShaffer		
15	RPDavin	RJMcDevitt	HCShaw		
	OHDavis	JSMcKarns	JDShiffer		
6	HEDeady	RJMcKell	CGShih		
	BADettman	AWMedcalf	AWSimila		
7	TGdeUriate	EJMeyers	ALSimmons		
	FJDodd	FWMielke, Jr.	SMSkidmore		
8	DLDuke	RHMiller	ACSmith		
	RDunlea 75	MLMooney			
9	RJEider.	TFMorris	BMSpeckman AGStrassburger		
	GAEnglish	RDMullikin	WMStubblefield		
2011	RDEtzler	JCNeel	GSwallow		
	RDFagg	AJNavolo	RMSwanson		
21	SMFandel	RFNichols	PASzalinski		
	TRFerry	WPNoone	RDTesta		
22	EHFletcher	RROchsner	RCThornberry		
	EFortner	DAOglesby	RHThuillier		
23	JHFraser	ROhlbach	RGTodero		
	JLFrazier	DOkabayashi	JDTownsend		
24	WHFujimoto	RPatterson	MRTresler		
	WFunabiki	HNPeelor			
25	WSGarrett	RJPeters	RTTwiddy JAVance		
	CDGilson	CHPeterson	JRVanSchaick		
26	EAGiudici	GAPierce	JCVocke		

1	Attachment II	CERO Personnel (continued)	
2	Accuellater II	<u>ento rersonner</u> (concinded)	
3	REGleason	HSPitner	RMWetherall
4	KMGodfrey DDGubara	CTPolidoroff DWPooler	VFWittman LFWomack
5	DRHanes	JLPotter	SAWong RAYoung
6			KATOUNG
7			
8			
9			
10			
11	경제가 가지 않는		
12		ATTACHMENT III	
13		EDS NUCLEAR INC. OBSERVERS	
14		Robert B. Wester	
15	和推动的法	Klenne L. Herman Mark Goldstein	
16		Ronald M. Polivka Mark G. Smith	
17		Edward T. Quinn Robert Ridge	
18		David L. Powell Terrance W. Pellisero	
19		Vlada Kuceravy Laura S. Listug	
20		Dennis H. Paley Mark D. Schumann	
21			
22	111		
23	111		
24	111		
25			
26			
11		-24-	

1	ATTACHMENT IV
2	DRILL SCENARIOS AND CRITIQUES
3	
4	
5	Drill Scenarios
6	FGandE Corporate Emergency Preparedness Drill Scenario
7	Walkthroughs 3A-3F March 1981
8	PGandE Corporate Emergency Preparedness Drill Scenario Communications Test
9	April 1981
10	PGandE Corporate Emergency Preparedness Drill Scenario Simulations 4A-4F
11	May 1981
12	PGandE Corporate Emergency Preparedness Drill Scenario Walkthrough 3
13	June 1981
14	Diablo Canyon Power Plant Emergency Preparedness Exercise Scenario
15	Field Exercise Dress Rehearsal August 1981
16	
17	Drill Critiques
18	Critique of Corporate Emergency Preparedness Walkthroughs 3A-3F
19	Critique of Corporate Emergency Preparedness Communications Test
20	Critique of Corporate Emergency Preparedness Simulation 4ABC
21	Critique of Corporate Emergency Preparedness Simulation 4D Critique of Corporate Emergency Preparedness Simulation 4F
22	Critique of Corporate Emergency Preparedness Walkthrough 3E
23	Critique of Corporate Emergency Preparedness Simulation 4
25	
26	
20	111
	-25-

1	(a)(ii)	The follo	owing drills have been conducted by
2		the Diablo Car	nyon plant staff:
3		May 2, 1979	Emergency Exercise
4		August 20, 1980 June 9, 1981	Radiological Personnel Injury Drill Radiological Personnel Injury Drill
5		July 3, 1981 July 22, 1981	Site Emergency Signal Drill- Plant Staff Notification Drill
6		August 13,1981	Emergency Plan Exercise - Preparation Drill
7		August 17, 1981	Emergency Plan Exercise - Preparation Drill
8	(b)(11)	The foll	owing participated or observed the
9	(2)(21)		
		drills identif	fied above:
10		May 2, 1979	Participants - Diablo Canyon Site Personnel,
11			San luis Obispo County, French Hospital, California Dept. of Forestry
12			Observers - NRC
13		August 20, 1980	Participants - Diablo Canyon Site Personnel, French Hospital
14		June 9, 1981	Observers - PGandE General Office Personnel Participants - Diablo Canyon Plant Staff,
15			Observers - Helgeson Nuclear Services, Inc. Personnel
16		July 3, 1981	Participants - Diablo Canyon Plant Staff
17			Diablo Canyon Construction Personnel
18			Observers - Diablo Canyon Plant Staff PCandE General Office Personnel
19		July 22, 1981	Participants - Diablo Canyon Plant Staff Observers - None
		August 13, 1981	Participants - Diablo Canyon Plant Staff
20		August 17, 1981	Observers - Stone and Webster Personnel Participants - Diablo Canyon Plant Staff
21		naguse 17, 1901	PGand¿ General Office Personael
22			San Luis Obispo County Health Dept. California Office of
23			Emergency Services
24	///		Observers - Stone and Webster Personnel
25	111		
26	///		
11			-26-

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1	(c)(ii)		The following	documents relate to the drills
2		iden	tified above:	
3		1.		"Discussion of Emergency
4			undated.	ay 2, 1979" by J. D. Shiffer,
5		2.		File, Subject: Emergency nel Injury (Radiological),
6				80, by J. V. Boots, 8/26/80.
7		3.		File, Subject: Personnel logical), June 9, 1981, by
8			H. W. C. Fong,	
9		4.		File, Subject: Emergency Plan (July 3, 1981), by W. J.
10			Keyworth, 7/13	
11		5.		File, Subject: Emergency Plan (July 22, 1981), by W. J.
12			Keyworth, 7/23	
13			Drill Log - unsigned.	August 13, 1981, undated,
14				
15			Drill Log - unsigned.	August 17, 1981, undated,
16	(8 - 9	Madian Davill
17	(a)(111)			
18			16 - 17	
19			of June 22	Preliminary Assessment Training
20		July		Tabletop (key county people)
21		July		Monitoring/EOF Drill
22			of July 13	Accident Assessment Course/Drill
23		July	14	Reception/Care Facility Drill
24	6.64.5	Juiy	21 - 22	Alert/Warning Evaluation
25		July	28	Evacuation/Control Drill
26		Augu	st 5	Full-Scale FOC Drill
	Lot segment of the			

1		August 17	TSC/EDF/EDAC/CIRc Drill
2		August 19	Full Field Exercise
3		August 21	Exercise Critique
4			이 같은 것은 것이 같은 것이 같이 했다.
5	(b)(iii)	French Hospital	집 그는 것은 것이 많이 많이 많이 했다.
6		San Luis Obispo	
7		San Luis Obispo/San	Jose
8		San Luis Obispo/San	Jose
9		C.S.T.I.	
10		Sheriff's/Field	
11		C.S.T.I.	
12		Paso Robles Fairgro	unds
13		San Luis Obispo	
14		Sheriff's Office	
15		Sheriff's Office	
16		Sheriff's Office	
17		San Luis Obispo	
18			
19	(c)(iii)	For each of t	he exercises listed above in
20		5a(iii) sign up sh	neets were utilized. These
21		documents are ava:	ilable under responses to
22		requests for produc	tion.
23			
24			
25			
26			

1 INTERROGATORY NO. 6:

2	(a) Describe all training provided to onsite and
3	offsite emergency response personnel to prepare them to
4	respond to a radiological emergency at Diablo Canyon.
5	(b) Identify and describe all documents,
6	including critiques, photographs and motion pictures, which
7	pertain in any way to this training, including the complete
8	PG&E training program designed to ensure that PG&E personnel
9	and employees are prepared to respond adequately to a
10	radiological emergency at Diablo Canyon.
11	
12	RESPONSE TO INTERROGATORY NO. 6:
13	(a) The onsite and offsite training for emergency
14	response personnel was conducted by PGandE and the
15	State of California Office of Emergency Services. This
16	combined training program for PGandE, county, state,
17	and federal personnel was conducted on the following
18	schedule:
19	
20	SCHEDULE OF CERO TRAINING
21	Date Session Participating Departments Conducted
22	1 Executive Officers and Corporate 2/20/81
23	Emergency Response Organization Recovery Managers and Primary
24	Coordinators
25	
23	2A Security and Personnel Relations 2/23/81

1	Session	Participating De	eparte	nents		Date Conducte	ed
3	2B	Materials				2/25/8	1
4	2C	Corporate Emergeno Site Personnel	cy Res	sponse P	lan	3/6/81	
5	2D	Division Support				3/5/81	
6	2E	Quality Assurance				3/2/81	
7	2F	Communications				3/9/81	
8	2G	General Constructs and Technical Supp Computer Systems a	port,	and	ing	3/11/8	1
10	2H	Radiological Analy Protection				3/13/8	1
11	21		d Cal			2/16/2	
12	21	Law, Insurance, an Health and Claims	10 541	lety,		3/16/8	•
13	2J	Governmental Relations and Public Relations				3/18/81	
14		rubiic Relacious					
15							
16		DIABLO CANYON	TDATA	ITNC			
17		DIABLO CANION	IKAII	ING			
18	Activity	Participants	Date		Locat	ion	Lead Agency
19	Briefings (2)	All Officials	June	17-18	SLO		OES
20	Preliminary	County Health,	June	22	SLO		OES
21	Assessment Training	Dept Ag, Air Pollution Control					
22	Accident	County Health,	July	13-16	CSTI		OES
23	Assessment Course	Dept Ag, Air Pollution Control, PG&E, OES, DHS	,				
24							
25	Alert/Warning/Public Information Evaluatio	n	July	21-23	SLO		FEMA/OES
26	///						

1	Activity	Participants	Date	Location	Lead Agency
2	and the second			Docución	Agency
3	PIO Orientation	County & Utility PIO's	July 23	SLO	PG&E
4	Ambulance	San Francisco	July 27	SF	PG&E
5	Attendant Training	Ambulance, Air Ambulance			
6	Additional Accident	State &	Week of		
7	Assessment Training	Local Personnel	July 27	CSTI	
8	PIO Planning Meeting	County, State, Utility, FEMA PIO's	July 28	SLO	OES/County
9		FIO S			
10	Reception/Care Facility Training	County, State, Red Cross	July 29	Camp Roberts	OES
11	PIO Planning Mtg.	County, State, Utility, FEMA	Aug 12	SLO	OES/County
12					
13	UDAC Planning Mtg.	County, State, Utility	Aug 13	SLO	OES/County/ PG&E
14	Press Briefing		Aug 18	SLO	County/OES
15	Congregate Care Mtg.	County, Red Cross	Aug 18	Camp Roberts	County
16 17	Exercise Critique	County, State, Utility, FEMA, NRC	Aug 21	SLO	County/FEMA
18	Medical Personnel	St. Francis	Aug 24-28	Oak Ridge	Oak Ridge
19	Training	Hospital		Farm	Assoc. Univ.
20					
21	(b) The	following lis	t of train	ning docume	nts
22	depicts the d	onsite and offs	ite PGandE,	county, st	tate,
23	and federal t	raining program	1:		
24		Plant Administ			
25		Requirements : el, Revision 2,			rce
26	111				

1	(2)	Diablo Canyon Power Plant Unit Nos. 1 and 2
2		Administrative Procedure B-50, Safety and Emergency Planning Training Courses, Revision 1, dated 5/31/79.
3		
4	(3)	Handwritten revision (incomplete) to Diablo Canyon Power Plant Units Nos. 1 and 2, Administrative Procedure B-50, "Emergency Plan Training Courses,"
5		undated, prepared by W. J. Keyworth.
6	(4)	
7		subject: Emergency Plan Training, dated July 7, 1981.
8	(5)	Memorandum, R. C. Thornberry to J. D. Shiffer,
9		subject: Emergency Plan Training, dated 5/6/81.
10	(6)	EPD-600 Basic Actions in the Event of an Emergency On-Site" originals of overhead slides, undated,
11		prepared by W. J. Keyworth, date unknown.
12	(7)	Lecture Notes, EPD-600, Basic Personnel Actions in the Econt of an Emergency, by J. D. Shiffer,
13		Rev. 0, dated 1/22/79.
14	(8)	Lecture Notes, EPD-600, Rev. 1, 12/1/80, by W. J. Keyworth.
15	(9)	Lecture Notes, EPD-600, Rev. 2, 8/27/81, Basic Actions in the Event of an Emergency On-Site, by
16		W. J. Keyworth.
17		Lecture Notes, EPD-500, Rev.) 1/2/81, Overview of Diablo Canyon Emergency Plan and Procedures, by
18		W. J. Keyworth.
19	(11)	Lecture Notes, EPD-500, Rev. 0, 1/2/81, Overview of Diablo Canyon Emergency Plan and Procedures,
20		annotated Rev. 1, 6/1/81, annotated as updated 7/6/81.
21		사람이 있는 것은 것 같아요. 그 것 것 것 것 것 것 같아요. 것 같아요. 것 같아요.
22	(12)	Radiological Emergency Plan Overview Exam, dated 5/81 by W. J. Keyworth.
23	(13)	Radiological Emergency Plan and R-procedures Exam,
24		dated 6/81, by W. J. Keyworth.
25	(14)	Lecture Notes, EPD-350, Maintenance and Repair under Radiological Emergency Condition, undated by W. J. Keyworth, date unknown.
26		". o. Keyworth, date unknown.

1	(15) Nuclear Data Communications System (NDCS) Training, Class Outline, undated by Dr. T. C. Chu, date unknown.
3	(16) Diablo Canyon Power Plant Emergency Plan, Rev. 3, 6/15/81, section 8 Maintaining Emergency
5	Preparedness annotated by W. J. Keyworth, date unknown.
6	(17) Emergency Procedures, Volume 3 of the Diablo Canyon Power Plant Units 1 and 2 Plant Manual.
7	(18) The following draft emergency procedures:
8	R-2 (Rev. 3) Release of Airborne Radioactive Mat'1, 8/11/81
9	G-1 Accident Classification and Emergency Plan Activation, 9/1/81
10	G-2 Establishment of the On-site Emergency Organization, 7/25/81
	G-3 Notification of Off-site Emergency Organizations, 7/27/81
11	G-4 Personnel Assembly and Accountability, 7/27/81
12	G-5 Evacuation of Nonessential Site Personnel, 7/8/81
	OR-2 Release of Information to the Public, 7/24/81
13	EF-1 Activation of the Technical Support Center, 7/24/81
14	EF-2 Activation of the Operational Support Center, 7/24/81
15	EF-3 Activation of the Emergency Operations Facility, 7/10/81
16	EF-4 Activation of the Mobile Radiological Monitoring Van, 7/8/81
10	EF-5 Emergency Equipment, Instrument & Supplies, 5/26/81
17	EF-6 Activation of the Emergency Assessment and Response System, 7/24/81
18	EF-7 Activation of the Nuclear Data Communications System, 8/7/81
19	RB-2 Emergency Exposure Guides, 7/9/81
19	RE-3 Stable Iodine Thyroid Blocking, 6/23/81
20	RB-4 Controlled Area Establishment, 7/21/81
21	RB-5 Personnel Decontamination, 7/21/81
22	RB-6 Area & Equipment Decontamination, 8/11/81
22	RB-7 Emergency On-Site Radiological Environmental Monitoring, 7/24/81
23	RB-8 Emergency Off-Site Radiological Environmental Monitoring, 7/24/81
24	RB-9 Determination of Release Rates, 8/11/81
25	RB-10 Protective Action Guidelines, 6/23/81
	RB-11 Emergency Off-Site Dose Calculations, 7/24/81
26	(19) Corporate Emergency Response Plan Lesson Plans
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INTERROGATORY NO. 7:

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Describe all equipment available to San Luis Obispo County personnel (including personnel of any c the Cities responding pursuant to the County Plan) to respond to a Diablo Canyon radiological emergency.

RESPONSE TO INTERROGATORY NO. 7:

8 Applicant objects to this question on the basis it 9 is (a impossible to answer, (b) overly broad and vague, (c) 10 not within the knowledge of the answering party, and (d) not 11 designed to lead to admissible evidence. The interrogatory 12 asks for a listing of all equipment available to the County 13 to respond to a radiological emergency. Such a question 14 could generate answers from the number of pencils and 15 erasers available to the number of Hewlett Packard 1010's 16 for measuring radiological conditions. Clearly the number 17 and kind of radiological monitoring equipment is material to 18 the issue at bar. The number of pencils is not. Unfortu-19 nately the interrogatory makes no such distinction.

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INTERROGATORY NO. 8:

(a) Describe all plans for notification of
transient persons within 10 miles of the Diablo Canyon
facility in the event of a radiological emergency.

1Transient persons include agricultural workers, visitors to2Montana de Oro State Park, and other persons who may be3temporarily visiting the San Luis Obispo area.

(b) Describe all documents which relate in any way to such notification, including, without limitation, any analyses of the time(s) necessary for and feasibility of notifying persons in the backcountry of Montana de Oro State Park.

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RESPONSE TO INTERROGATORY NO. 8:

 (a) The detailed procedures for notification of transient populations can be found in the San Luis
 Obispo County Nuclear Power Plant Emergency Response
 Plan and Standard Operating Procedures.

There are two groups of transient populations which would be notified directly by PGandE at the request of the County Sheriff's Office as described below:

19 (1) Migrant farm workers along the DCPP 20 South access road. In addition to installing two non-electronically activated warning devices on 21 22 existing structures, PGandE will dispatch from 23 the plant a vehicle equipped with a megaphone or 24 other loudspeaker devices which would proceed 25 along the South access road to the pea farm 26 located approximately 4.2 miles from the plant.

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This vehicle would be used to notify all persons working in the area. See Diablo Canyon Power Plant Emergency Procedures, EP G-5, Rev. O., entitled "Evacuation of Non-essential Site Personnel."

6 (2) Hikers in remote areas of Montana de Oro 7 State Park. The San Luis Obispo County Nuclear 8 Power Plant Emergency Response Plan Standard 9 Operating Procedure III.12 entitled "State 10 Department of Parks and Recreation" outlines a 11 procedure for notification and evacuation of 12 persons in the Park. PGandE currently has an 13 agreement with Rogers Helicopter Service to 14 provide a helicopter in the event of an emergency 15 situation. This helicopter could be used to 16 notify persons in the park if the County requested 17 such assistance. Helicopters are available which 18 could be used as a back-up or primary vehicle for 19 notification of transient populations.

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(b) (1) DCPP Emergency Procedures - EP G-5

22	(2)	DCPP Emergency Plan - Letters of Agreement
23	(3)	SLO Emergency Plan and Standard Operating
24		Procedure
25	(4)	Evacuation Times Assessment for DCNPP,

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1.1.1.1	
1	(5) NUREG-0654, Appendix 3
2	(6) TERA report - "Earthquake Emergency
3	Planning at Diablo Canyon"
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9	INTERROGATORY NO. 9:
10	(a) Describe the seismic qualification, including
11	a description of the earthquake forces (acceleration,
12	velocity and displacement) that the equipment is designed to
13	withstand and still be completely functional, of: (1) the
14	real-time monitors, both onsite and offsite (PG&E Plan, Vig.
15	7.3-4); (2) the equipment at each of the offsite
16	environmental monitoring stations (Figure 7.3-3); (3) the
17	sirens utilized in the early warning system (Figure 7.2-8);
18	and (4) the onsite meteorological tower.
19	(b) Identify and describe the manufacturer and
20	the model numbers of all such equipment.
21	(c) Describe the structures to which all such
22	equipment is attached and the seismic qualification of such
23	structures.
24	(d) Identify and describe any tests or analyses
25	which have been performed either by PG&E or others on the
26	qualification, characteristics, and response features of the
11	-37-

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1	foregoing equipment and structures proposed for use at		
2	Diablo Canyon, onsite and offsite.		
3			
4	RESPONSE TO INTERROGATORY NO. 9:		
5	(a) The real-time monitors, offsite environmental		
6	monitoring systems, sirens and the onsite		
7	meteorological tower have not been seismically		
8	qualified.		
9			
10	(b) The real-time monitors and the environmental		
11	monitoring station equipment are described in section		
12	7.3 of the Diablo Canyon Site Emergency Plan.		
13	The manufacturer of sirens is Federal Signal		
14	Corporation Signal Division. Model Numbers of the		
15	sirens are:		
16	(1) Models 1000A & 1000B with RCMIA & RCMIB control		
17	cabinets and ARCH-S1 receivers and timers. Model		
18	1000 sirens are rated 125 dB.		
19	(2) Models STH10A & STH10B with RC5WA &RC5WB control		
20	cabinets and ARCH-S1 receivers and timers. odel		
21	STH10 sirens are rated 115 dB.		
22	(3) Models 5A & 5B with RC5WA & RC5WB control cabinets		
23	and ARCH-Sl receivers and timers. Model 5 sirens		
24	are rated 107 dB.		
25	(4) Model 2 with RC5W control cabinet and ARCH-S1 re-		
26	ceiver and timer. Model 2 sirens are rated 102 dB.		

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1	(5)	Model LCS-1 local coverage siren. Model LCS-1
2		sirens are rated 85 dB.
3		
4		Meteorological instrumentation is comprised
5	of:	
6	(1)	wind measurement by a Teledyne-Geotech Series 50
7		system using three-cup anemometers and "quick one"
8		vanes.
9	(2)	temperature and temperature gradient measurements
10		by a Teledyne Geotech Model 40.35 microprocessor
11		system in conjunction with platinum resistance
12		thermometers in Teledyne Geotech Model 327 aspi-
13		rated radiation shields.
14	(3)	precipitation measurement by a Belfort Model
15		tipping bucket raingage with rainfall increments
16		digitally accumulated by a Teledyne Geotech Model
17		40.52 processor.
18	(4)	dew point measurement by an EG&E Model 110-M
19		chilled minor dew point system with signal pro-
20		cessing by a Teledyne Geotech Model 40.71 signal
21		processing module.
22	(5)	data acquisition of primary and backup tower data
23		by Teledyne Gectech "Outomet V" digital data
24		acquisition systems.
25	(6)	mechanical backup for automated tower data by use
26		of a Meteorology Research Incorporation Model 1071
	8.1.1	portable mechanical weather station.
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All real-time monitors and on-and offsite monitoring stations are free standing structures located outside of any structure (except for the station at Morro Bay Power Plant).

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The primary meteorological instrumentation is deployed on a 2 foot square 67 meter tall guyed tower of angle iron construction via retractible steel tube booms. Backup meteorological instrumentation is deployed on a 50 meter tall guyed tubular steel tower of triangular cross section; 18 inches on a side, via lowerable aluminum booms. The site of the backup tower is separated by 1.2 kilometers from the site of the primary tower. Acquisition and recording equipment are sheltered in small concrete block structures with corrugated steel roofs.

17 (d) The onsite meteorological tower is a light18 weight structure which is not highly susceptible to
19 earthquake forces. Instead, it is designed for wind.
20 It has been determined capable of withstanding a 110
21 mph wind within normal allowable working stresses.
22 This is equivalent to a seismic loading of 1.2g.

The Federal Signal Company, the siren manufacturer, has recently completed some seismic work on the largest siren, model 1000. This material is being forwarded to PGandE and will, when available, be used to supplement these answers.

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1 INTERROGATORY NO. 10: 2 What is the status of implementation, testing and 3 activation of the public notification system sirens (see 4 PG& Plan, Rev. 2, Figure 7.2-8)? In your response, do the 5 ollowing: 6 (a) Describe how each siren is mounted; 7 (b) Identify the final seleted [sic] location of 8 each siren; 9 (c) The criteria for choosing each siren 10 location: 11 (d) The population covered by each siren; 12 (e) The estimated population (both permanent and 13 transient) within the early warning boundary system (see 14 Figure 7.2-8) which is not covered by the siren system; 15 (f) The means, if any, by which the population not covered by the siren system will be notified of a Diablo 16 17 Canyon emergency; 18 (g) Describe all tests of the siren system, including (1) tests designed to test the coverage of 19 20 individual sirens and (2) tests designed to determine the seismic qualification of the siren system; and 21 (h) Identify and describe all documents which 22 23 relate in any way to (a) - (g) above. 24 111 25 111 26 111

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1	RESPONSE TO INTERROGATORY NO. 10:
2	General Status
3	Seventy-three of the eighty-three sirens that
4	currently comprise the system have been installed in the SLO
5	County Basic Emergency Planning Zone. Five of the remaining
6	sites have been cleared for construction, and four are
7	awaiting additional approvals. Presently, the siren radio
8	receivers are being retrofitted for a new frequency and also
9	for subaudible tone activation in order to increase the
10	security of the system. All of the parts and equipment
11	necessary to retrofit the receivers are in order. It is
12	anticipated that the existing system will be operational in
13	November of 1981.
14	The activiating encoder is installed in the County
15	Sheriff's dispatch room and is operational.
16	Specific Parts
17	(a) Siren Mounting
18	(1) Models 1000A & B
19	Compressor platform is bolted to pole with
20	2-3/4" through-bolts. Platform stabilizers are logged
21	to pole and bolted to the platform.
22	Control and receiver cabinets are bolted to
23	the platform and supported with cross-arm braces. The
24	schedule to rigid steel air pipe from the compressor to
25	the chopper assembly is attached to the pole with
26	galvanized steel brackets at 5 ft. intervals. The

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1		siren unit wh	ich includes the chopper assembly is
2		attached to the	he steel pipe at the top of the pole.
3		(2)	Models STH10A & B, 5A & B, 2
4		Thes	e sirens are bolted to a tri-mount
5		bracket which	in turn is bolted to the top of the pole.
6		The	control cabinets, ARCH-S1 receivers and
7		disconnect swi	tch are bolted to a 6 ft. length of 6"
8		channel which	is "through-bolted" to the pole with 3/4"
9		bolts.	
10		(3)	Model LCS-1
11		This	self-contained siren is "through-bolted"
12		to the pole wi	th 1/2" bolts.
13			
14	(b)	Loca	tion of each siren as shown on the map in
14 15	(b)	Loca the Emergency	경험 그는 그는 그가 걸려 잘 한 것 같아요. 아파 가지 않는 것 같아.
	(b)		경험 그는 그는 그가 걸려 잘 한 것 같아요. 아파 가지 않는 것 같아.
15	(b)	the Emergency	Plan. <u>LOCATION</u> North Morro Bay - near the intersection
15 16	(b)	the Emergency <u>SIREN NO</u> . 1	Plan. <u>LOCATION</u> North Morro Bay - near the intersection of Sequoia and Birch.
15 16 17	(b)	the Emergency SIREN NO.	Plan. <u>LOCATION</u> North Morro Bay - near the intersection
15 16 17 18	(b)	the Emergency <u>SIREN NO</u> . 1	Plan. <u>LOCATION</u> North Morro Bay - near the intersection of Sequoia and Birch. Cayucos on Standard Oil property near
15 16 17 18 19	(b)	the Emergency <u>SIREN NO</u> . 1 1A	Plan. LOCATION North Morro Bay - near the intersection of Sequoia and Birch. Cayucos on Standard Oil property near Highway 1. Near the Cayucos Cemetary on Highway 1. Cayucos near the intersection of 4th &
15 16 17 18 19 20	(b)	the Emergency SIREN NO. 1 1A 1B 1C	Plan. LOCATION North Morro Bay - near the intersection of Sequoia and Birch. Cayucos on Standard Oil property near Highway 1. Near the Cayucos Cemetary on Highway 1. Cayucos near the intersection of 4th & Park.
15 16 17 18 19 20 21	(b)	the Emergency SIREN NO. 1 1A 1B	Plan. LOCATION North Morro Bay - near the intersection of Sequoia and Birch. Cayucos on Standard Oil property near Highway 1. Near the Cayucos Cemetary on Highway 1. Cayucos near the intersection of 4th &
15 16 17 18 19 20 21 22	(b)	the Emergency SIREN NO. 1 1A 1B 1C	Plan. LOCATION North Morro Bay - near the intersection of Sequoia and Birch. Cayucos on Standard Oil property near Highway 1. Near the Cayucos Cemetary on Highway 1. Cayucos near the intersection of 4th & Park. On PG&E property at the Morro Bay Power Plant. In Morro Bay, on Morro Avenue north of
15 16 17 18 19 20 21 22 23	(b)	the Emergency SIREN NO. 1 1A 1B 1C (2) (3)	<pre>Plan. LOCATION North Morro Bay - near the intersection of Sequoia and Birch. Cayucos on Standard Oil property near Highway 1. Near the Cayucos Cemetary on Highway 1. Cayucos near the intersection of 4th & Park. On PG&E property at the Morro Bay Power Plant. In Morro Bay, on Morro Avenue north of Olive.</pre>
15 16 17 18 19 20 21 22 23 24	(b)	the Emergency SIREN NO. 1 1A 1B 1C (2)	Plan. LOCATION North Morro Bay - near the intersection of Sequoia and Birch. Cayucos on Standard Oil property near Highway 1. Near the Cayucos Cemetary on Highway 1. Cayucos near the intersection of 4th & Park. On PG&E property at the Morro Bay Power Plant. In Morro Bay, on Morro Avenue north of

1	SIREN NO.	LOCATION
2	6A	In Baywood Park near the intersection of El Morro Avenue and 6th Street.
3		El Morro Avenue and 6th Street.
4	7	In Los Osos on Pecho Valley Road several blocks west of Pine Avenue.
5	88	Montana de Oro Park near the Ranger Station.
6	8B	Montana de Oro Park near the Ranger's
7	00	residence.
8	80	On the Field's property south of the gate.
9	8D	On the Fieldie presents near the Fieldie
10		On the Field's property near the Field's residence.
11	9	Near Highway 1 on PG&E's Baywood
12		substation yard.
13	10	Near Highway 1 west of San Luisito Creek Road.
14	12	On Highway 1 just north of Cuesta College.
15	13	On Highway 1 northwest of animal
16	15	shelter.
17	14	On Highway 1 about 1/2 mile west of the California Division of Forestry.
18	15	In Can Luig Obiene servers the street
19	15	In San Luis Obispo across the street from City Fire Station on No. Chorro Street.
20		
21	16	In San Luis Obispo near Grand Avenue and Slack Street.
22	17	In San Luis Obispo in parking lot next to the fire station on Graden Street.
23		
24	18	On Clark Valley Road - near the PG&E 500 kV right of way.
25	19	Los Osos - near the end of Valley View Place.
26		

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1	SIREN NO.	LOCATION
2	190	Los Osos - near the end of Valley View Place.
3		11000.
4	19D	In Los Osos - on Nipomo Avanue East of South Bay Boulevard.
5	19E	In Los Osos near the fire station on Calle Cardonay.
6	20	On Los Osos Valley Road near the 500 kV right of way.
8	21	On Los Osos Valley Road east of Turri Road.
9		
10	22	On Los Osos Valley Road about 1.5 miles east of No. 21.
11	23	Near the intersection of O'Connor Way and Foothill Road.
12	222	
13	23A	On C'Connor Way about 2 miles west of 23.
14	24	On Perlimo Canyon Road.
15	24A	About 2000 ft. south of Perfumo Canyon Road.
16	24B	Near the and of Sugraphic Conver Boad
17	240	Near the end of Sycamore Canyon Road.
18	25	At the top of Perfumo Canyon Road.
19	25A	On Coon Creek Road about 1-5/4 miles west of See Canyon Road.
20	26A	On Coon Creek Road about 1/2 miles west of See Canyon Road.
21		or bee canyon hour.
22	27A	On See Canyon Road about 1 mile east of 27B.
23	27B	On See Canyon Road about 3500' west of 26A.
24		2011.
25	270	On See Canyon Road about 2500 east of Davis Canyon Road.
26	27	On See Canyon Road about 2500 east of Davis Canyon Road.
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1	SIREN NO.	LOCATION
2	29	On Los Osos Valley Road about 2000' south of Madonna Road.
3		south of Madolina Road.
4	29A	Off Los Osos Valley Road in Laguna Lake area.
5	30	In San Luis Obispo on Meisner Road.
6	31	In PG&E's Service Center yard on So. Higuera.
8	31A	Near the end of Davenport Road.
9	31B	On Highway 101 Frontage Road south of So. Higuera off ramp.
10	310	On Highway 101 Frontage Road about 2000 ft. north of 500 kV right of way.
11		이 것 같은 것 같
12	32	On Squire Canyon Road east of Highway 101.
13	33	Across street from Belleview - Santa Fe School on See Canyon Road.
14	34	In Avila Beach near DCPP security gate.
15	35	In downtown Avila Beach near San Antonio Street.
17	36	On Highway 101 near Palisades Drive.
18	37A	At Shell Beach fire station.
19	38	On Mattie Road near McLintock's restaurant.
20		100 Guarano.
21	38A	On Shell Beach Road north of Ocean Way.
22	39	In San Luis Obispo on Santa Fe Road south of Tank Farm Road.
23	40	On private property south of San Luis Airport.
24	41	North of the Town of Edna.
25	41	
26	42	On Price Canyon Road on Grace Oil property.

11		
1	SIREN NO.	LOCATION
2	43	On Price Canyon Road about 1 mile north
3		of Pismo Beach.
4	44	In Pismo Beach on a watertank in sub- division above Pismo Beach.
5	45	In Pismo Beach on Bello Road near Veteran's Hall.
6	46	On Highway 1 South Pismo Beach.
7		
8	47	In Grover City - 4th and Manhattan.
9	48	In Oceano on Railroad Avenue.
10	49	In Grover City at Water Tower.
	50	On Halcyon Road near Oceano city limits.
11	51	In Arroyo Grande near new fire station.
12		
13	51A	At PGandE substation on Valley Road south of Arroyo Grande.
14	52	On Arroyo Grande Road east of Arroyo Grande.
15	52A	On Printz Road north of Arroyo Grande.
16	52B	On Noyes Road north of Printz Road.
17		
18	49B	On Central Boulevard north of Arroyo Grande.
19	49C	On Central Boulevard about 4000 ft.
20		north of 49B.
21	53	On Valley Road about 7000 ft. south of 51A.
22	56	Near intersection of El Campo & Clarkway.
23	57	On Valley Road about 7000 ft. South of
24	57	53.
25	58	On Stanton Road South of Los Berros Road.
26	111	

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1	SIREN NO.	LOCATION
2		Near intersection of Los Berros and
3		Keokee.
4	60	On Pomeroy Road.
5		On Willow Road at Black Lake County Club.
6		
7	(c) <u>Criteria</u>	
8	The t	wo major criteria used in determining
9	siren coverage	were:
10	(1) The NRC r	equirements for notification of the
11	population	as outlined in Appendix 3 of NUREG-0654
12	and,	
13	(2) The recomm	ended 10 dB sound level above average
14	daytime am	bient background noise as a target level
15	for the de	sign of an adequate system (NUREG-0654,
16	FEMA "Outd	oor Warning Systems Guide").
17	In ad	dition to sound propagation and notifi-
18	cation of the p	oopulation, several other criteria were
19	thoroughly inv	estigated before final siren site
20	locations were	selected.
21	(3) Environmen	tal Impact. PGandE's "Environmental
22	Impact Ana	lysis of Construction and Testing of the
23	Early Warr	ning System" evaluates the potential
24	impact of	the EWS on all known important wildlife
25	and rare p	lant species. Several sites were
26	111	

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1		relocated in order to avoid sensitive nesting
2		areas and kangaroo rat habitats.
3	1.1	(4) Cultural Resources. A study entitled "DCPP Early
4		Warning System Cultural Resources Literature
5		Search and Report on the Field Investigations of
6		Selected Pole Sitings" was performed by a
7		consultant firm to avoid siting poles in
8		archeologically active sites.
9		(5) Coastal Zone. In order to avoid potentially
10		negative impacts on the aesthetic coastal
11		environment, considerable effort was made to site
12		sirens in this area on existing poles.
13		
14	(d)	The population covered by each siren:
15		The siren system was designed so that the
16		total population within the Basic Emergency Planning
17		Zone would be alerted in the event of an emergency
18		situation at DCPP. The system was not designed from
15		the standpoint of each siren covering a specific sector
20		of the population.
21		
22	(e)	The resident population within the 10-mile
23		radius of the plant and the Basic Emergency Planning
24	1.198	Zone presently not covered by the siren system is less
25		than a fraction of 1 percent. The transient population
26		within the siren system boundary would consist of
1	1.11.1	

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1 visitors in Montana de Oro State Park and farm workers 2 along the DCPP southerly access road. The campground, 3 all beach areas and all parking areas at Montana de Oro 4 State Park are within the siren system coverage area. 5 6 (f) Refer to interrogatory 8 response. 7 8 (g) Testing of the Siren System. 9 Each siren is tested upon installation to en-10 sure that all component parts are operational. A full 11 siren test will not occur until November 1981. A test-12 ing program is being prepared which will qualitatively 13 and quantitatively assess the capability of the siren 14 system to meet design criteria during the full siren 15 test. 16 Maintenance system testing will be performed 17 according to the manufacturer's requirements. 18 Individual siren coverage tests will not be 19 performed. 20 No seismic testing is anticipated beyond what 21 has been discussed in interrogatory 9. 22 23 NUREG-0654, FEMA-REP-1, Rev. 1. (h) 1. 24 2. FEMA Document GPG-1-17, FEMA Outdoor Warning Systems Guide. 25 3. "Public Notification System Service Manual," 26 Ingineering Systems, Federal Signal Corporation.

1	4. "Radio-Controlled Siren Alerting System for the
2	Diablo Canyon Nuclear Plant," prepared by Engineering Systems, Federal Signal Corporation.
3	5. "Evacuation Times Assessment for the Diablo Canyon
4	Nuclear Power Plant, September 1980, PRC Voorhees and Associates.
5	6. "Diablo Canyon Power Plant Early Warning System Cultural Resources Literature Search and Report on
6	Field Investigations of Selected Pole Sitings," Vance Bente, Mary Hilderman-Smith, Legion
7	Archaeological Research.
8	7. "Environmental Impact Analysis of Construction and Testing of the Diablo Canyon Early Warning
9	System," Report 411-80.396, PG&E Department of Engineering Research, January 1981.
10	
11	 "Rare Plant Survey and Wildlife Siting Information for 18 Relocated Pole Sites," July 17, 1981, letter from John Icanberry to C. J. Smith.
12	
13	9. Isopleth map delineating current siren coverage.
14	10. Engineering Drawings.
15	
16	
17	
18	INTERROGATORY NO. 11:
19	Attached to Revision 2 of the Diablo Canyon
20	Emergency Response Plan are a number of agreements. For
21	example, there are agreements with French Hospital and with
22	San Luis Obispo Ambulance Service.
23	(a) Identify and describe: (1) all updated
24	versions of these agreements; and (2) any other agreements
25	which PG&E believes support in any way the preparedness of
26	111
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2.11					
1	PG&E and/or offsite entities to respond to a radiological				
2	emergency at Diablo Canyon.				
3	(b) Describe any plans of PG&E to enter into any				
4	further agreements related to emergency planning and				
5	preparedness that are in addition to those included in				
6	Revision 2 of PG&E's Emergency Response Plan.				
7					
8	RESPONSE TO INTERROGATORY NO. 11:				
9	Letters of Agreement have been obtained from 23				
10	public and private entities. Requests have been made to				
11	several additional agencies for letters of agreement which				
12	are still pending.				
13	COMPLETED LETTERS OF AGREEMENT				
14	 State of California; Office of Emergency Services Effective May 27, 1981 				
16	 French Hospital, San Luis Obispo, California Effective June 8, 1981 				
17	 Condor Helicopters and Aviation, Inc. Ventura, California Effective July 31, 1981 				
19	 Rogers Helicopters, Clovis, California Effective July 1, 1981 				
20	5. Rotor-Aids, Inc., Ventura, California Effective July 9, 1981				
22	6. San Luis Ambulance Service, Inc.				
23	San Luis Obispo, California Effective May 13, 1981				
24	 State of California, Department of CALTRANS Effective May 11, 1981 				
25 26	8. State of California, Department of Rehabilitation Effective July 27, 1981				

1	24.	Radiological Emergency Mutual Assistance Agreement			
2		between Southern California Edison, Pacific Gas and Electric Company and Sacramento Municipal Utility District, dated June 1, 1981.			
3					
4	25.	Institute of Nuclear Power Operations, Letter, 8/27/80			
5	26.	Institute of Nuclear Power Operations, Voluntary Assistance Agreement, 1/15/81			
6					
7					
8		OTHER PENDING LETTERS OF AGREEMENT			
9	1.	U.S. Coast Guard			
10	2.	U.S. Air Force, Vandenberg AFB			
11	3.	U.S. Army National Guard, Camp Roberts			
12	4.	California Department of Parks and Recreation			
13	5.	California Department of Food and Agriculture			
14	6.	San Luis Obispo County Sheriff's Department			
15	7.	A backup ambulance service			
16	8.	An alternate media center			
17	9.	St. Francis Memorial Hospital			
18	10.	Western Regional Nuclear Plant Energy Preparedness Assn.			
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1 INTERROGATORY NO. 12:

2	(a) Is it PG&E's position that prior to full			
3	power operation, the onsite and offsite emergency			
4	preparedness at Diablo Canyon will comply fully with each			
5	and every one of the Planning Standards in Section 50.47(b)?			
6	(b) If the answer is YES, describe in detail the			
7	basis for and specifically demonstrate the means by which			
8	each Planning Standard will be satisfied.			
9	(c) If the answer is NO, describe each deficiency			
10	that PG&E anticipates and state whether PG&E, in that event,			
11	will rely on Section 50.47(c)(1) to support licensing of			
12	Diablo Canyon despite such deficiency.			
13	(d) For each such deficiency, provide the			
14	technical basis for use of Section 50.47(c)(1).			
15				
16	RESPONSE TO INTERROGATORY NO. 12:			
17	(a) Yes.			
18	(b) See Emergency Plans for applicant, county and			
19	state, and all implementing procedures.			
20	(c) N/A.			
21	(d) N/A.			
22	111			
23	111			
24	111			
25				
26				

1 INTERROGATORY NO. 13:

- 11	INIERROGAIORI NO. 15:
2	Describe each and every standard operating
3	procedure for the San Luis Obispo County Emergency Plan
4	(i.e., the draft version dated May 1981) which is in PG&E's
5	possession, custody, or control, including the possession,
6	custody, or control of PG&E's agents, consultants, or
7	Soutractors.
8	이 관계 같은 것 같은
9	RESPONSE TO INTERROGATORY NO. 13:
10	These procedures will be described in pending
11	responses to requests for production.
12	한 것은 것 같은 것이 같은 것은 것은 것이 없는 것이 같이 많이 많이 많이 했다.
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16	INTERROGATORY NO. 14:
17	(a) Describe each and every system or means that
1.8	PG&E plans to have available for communicating from the
19	Diablo Canyon site to offsite governmental authorities.
20	Include in your answer a description of: (1) the seismic
21	qualification of each such communication system and related
22	equipment and structures; and (2) all analyses, tests, and
23	other documents which relate in any way to these systems and
24	structures.
25	(b) Which of these systems does PG&E in end to
26	use for communicating with each of the following

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1 governmental authorities: San Luis Obispo County, the City 2 of San Luis Obispo, the State of California (specifically, 3 the Governor's Office, the Office of Emergency Services, and 4 the Lighway Patrol), the Nuclear Regulatory Commission 5 (specifically, the regional office and headquarters), FEMA 6 (specifically, the regional office and headquarters), and 7 the Cities of Atascadero, Arroyo Grande, Grover City, Morro 8 Bay, Paso Robles, and Pismo Beach.

9 (c) With respect to each of such cities, whom 10 does PG&E intend to contact in the event of a radiological 11 emergency at Diablo Canyon?

13 RESPONSE TO INTERROGATORY NO. 14:

12

14 (a) The following means are available for com 15 municating from Diablo Canyon to offsite governmental
 16 authorities:

The NRC's emergency notification phone system to
 the NRC Operations Center.

The NRC's health physics phone network to NRC
 Region V, Region V power plants, and NRC
 Operations Center.

3. PGandE's Diablo Canyon phone exchange with access
to Pacific Telephone Company's network.

24
 4. Diablo Canyon phone exchange interconnection via
 25
 microwave systems to PGandE's corporate
 26
 headquarters in San Francisco. This

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[]	
1	interconnection allows access to the Pacific
2	Telephone Company's network from San Francisco.
3	5. Unlisted Pacific Telephone Company private phones
4	at Diablo Canyon.
5	6. Dedicated automatic tie line phone to the San Luis
6	Obispo Sheriff's Office.
7	7. Dedicated automatic tie line phone to the
8	California Office of Emergency Services (UES) in
9	Sacramento, California.
10	8. A radio system between Diablo Canyon and the San
11	Luis Obispo Sheriff's Office.
12	Major communications equipment has been
13	strengthened and braced for seismic considerations.
14	Seismic capability of the communications system is
15	discussed in the aforementioned TERA Report, Chapter 5.
16	
17	(b) PGandE intends to use the following systems
18	for communications with:
19	1. San Luis Obispo County: radio system, dedicated
20	automatic tie line, and the Pacific Telephone
21	network.
22	2. City of San Luis Obispo: Pacific Telephone
23	network.
24	3. State of California, et al.: dedicated automatic
25	tie line to OES and the Pacific Telephone n twork.
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1	4. Nuclear Regulatory Commission: NRC emergency				
2	notification phone system, NRC health physics				
3	phone network, and the Pacific Telephone network.				
4	. FEMA: Pacific Telephone network.				
5	6. Cities of Atascadero, Arroyo Grande, Grover City,				
6	Morro Bay, Paso Robles, and Pismo Beach: Pacific				
7	Telephone network.				
8					
9	(c) PGandE is required to notify the San Luis				
10	Obispo County Sheriff dispatcher in the event of a				
11	radiological emergency at Diablo Canyon. Notification				
12	of cities is the responsibility of the San Luis Obispo				
13	County Emergency Organization.				
14					
15					
16					
17					
18	INTERROGATORY NO. 15:				
19	(a) List each and every person PG&E may call or				
20	subpoena as a witness to any hearing which may be held on				
21	the emergency preparedness contention admitted by the				
22	Licensing Board in its Order of August 4, 1981				
23	(b) As to each witness, please state:				
24	(1) The name, occupation, address and tele-				
25	phone number of each such person and				
26	whether that person may appear for PG&E				
11	-59-				

	등 것 같은 것 같은 것 같은 나라 있는 것	
1		as a voluntary witness or a subpoenaed
2		witness.
3	(2)	The field or science in which such
4		person is sufficiently schooled and/or
5		experienced to enable him or her to
6		express opinion evidence.
7	(3)	The qualifications of each such witness.
8	(4)	Whether such witness will base his or
9		her opinion in whole or in part upon
10		facts acquired personally by that person
11		in the course of an investigation or
12		examination as to the facts, or solely
13		upon information provided that person by
14		others. If on the basis of investiga-
15		tion or examination, please describe
16		such and state the nature and dates of
17		such. If on the basis of information
18		provided by others, please identify such
19		others and state their qualifications.
20	(5)	Each and every fact and each and every
21		document, photograph or report or item,
22		or other tangible object supplied or
2,3		made available to each such person.
24	(6)	Whether each such witness rendered
25		written reports regarding facts, bases,
26		or opinions as respects your answers to
1		-60-

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1	these interrogatories. If so, state the		
2	date of each such report and the name		
3	and address of the cust dian of each		
4	such report.		
5	(7) A summary of each such witness' proposed		
6	testimony.		
7	(8) Identify any other NRC proceedings in		
8	which such witness has previously		
9	testified and provide copies of such		
10	testimony.		
11			
12	RESPONSE TO INTERROGATORY NO. 15:		
13	(a) and		
14	(b) (1) (3) (8;		
15	The following list identifies individuals that		
16	PGandE may call as a witness to any hearing which may be		
17	held on the emergency preparedness contention admitted by		
18	the Licensing Board in its order of August 4, 1981.		
19	Individuals listed under numbers 2, 3, and 4 may well have		
20	to be subpoenaed as well as Messrs. Waddell, Whiting, and		
21	Hubbard.		
22	111		
23	111		
24	111		
25			
26			
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1	¹ R. C. Thornberry	1 _{s.}	G. Brown	
	R. Patterson	G.	N. Horne	
2	W. B. Kaefer	D.	P. Serpa	
	W. J. Keyworth		W. Lorenz	
3	J. M. Gisclon	К.	M. Godfrey	
	J. V. Boots		A. Mack	
4	B. A. Dettman	J.	L. Potter	
-	A. J. Nevolo	W.	H. Fujimoto	
5	J. V. Rocca	Μ.	Mooney	
	R. S. Bain	R.	Thuillier	
6	G. A. Blanc	Т.	Martin	
-	J. D. Shiffer	F.	Rockmaker	
7	J. D. Townsend	J.	R. Torrena	
	S. M. Skidmore		V. Bettinger	
8	R. J. McDevitt	R.	N. Swanson	
	J. B. Hoch			
9	D. J. Baxter	с.	O. Coffer	
10				
10				
11	2	3		4
	² S. MacElvaine	J.	Kearns	⁴ J. Eldridge
12	D. Stillwell	Α.	Flook K	Y. Nauman
12	T. Ness	0.	Orr	V. Paule
13	T. Mazzacano			
13	R. Jensen			
14				
15				
	⁵ K. W. Campbell	5	M. Darma	
16	R. L. Cudlin	C.	M. Payne	
	B. J. Davis		Penzien W. Smith	
17	D. K. Davis			
	C. P. Mortgat	R.	H. Winslow	
18	c. r. Mortgat			
19	R.F. Wester		P Pagana	
	EDS Nuclear Inc.		R. Rogers	
20			Rogers Helicop	ters
	220 Montgemery Street San Francisco, CA 94104		P.O. Box 4	· · · · · · · · · · · · · · · · · · ·
21	(415) 544-8000		Clovis, CA 936 (209) 299-4903	
	(415) 544-8000		(209) 299-4903	
22	T. Waddell		W K Prunet	
	P.O. Box 151		W. K. Brunot 595 John Muir 1	Drive 1500
23	San Luis Obispo, CA 93406			
	(415) 543-4244		San Francisco, (415) 334-0586	
24	(415) 545-4244		(415) 334-0386	
25	111			
	///			
26	111			

1		R. Hubbard
2	Sheriff G. Whiting Sheriff's Operations Facility	MHB Technical Associates 1723 Hamilton Avenue - Suite K
3	San Luis Obispo, CA 93408 (805) 543-2850	San Jose, CA 95125 (408) 266-2716
4	¹ Pacific Gas and Electric Company	² County Administration Office
5	77 Beale Street San Francisco, CA 94106 (415) 781-4211	Courthouse Annex Room A205 San Luis Obispo, CA 93408 (805) 549-5011
6	³ Office of the Governor	⁴ Federal Emergency Management Agency
7	Office of Emergency Services Nuclear Power Plant	211 Main Street San Francisco, CA 94105 (415) 556-9412
8	Planning Section	
9	P.O. Box 9577 Sacramento, CA 95823	
10	(916) 427-4341	
11	⁵ TERA Corporation 2150 Shattuck Avenue	
12	Berkeley, CA 94704 (415) 845-5200	
13		
14	(b)(2) Resumés have pre	viously been submitted on all
15	witnesses listed in r	esponse to Joint Intervenors'
16	interrogatories of Au	igust 4, 1981.
17		
18	(b)(4) Applicant cannot	answer this interrogatory as
19	respects witnesses it	may have to subpoena. As to
20	witnesses it will cal	1, testimony has not yet been
21	written and therefore	e no "opinions" from which to
22	answer this question	are available. However, for
23	the most part, it is	s anticipated that opinion
24	testimony will be b	ased largely upon facts
25	acquired personally h	by the witness in conjunction
26	with information supp	olied by others.

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1 (b) Identify all analyses, report, or other doc-2 uments which relate in any way to the complicating effects 3 of an earthquake, including complications to the northern 4 and southern evacuation routes from the Diablo Canyon site. 5 6 RESPONSE TO INTERROGATORY NO. 16: 7 (a) Emergency planning for the Diablo Canyon site 8 has included consideration of the complicating effects 9 of earthquakes. Analyses of possible specific effects 10 related to the three referenced earthquakes are not 11 particularly useful to planning as the exact 12 consequences are not amenable to a purely deterministic 13 prediction. The objective of emergency planning for 14 Diablo Canyon was to establish a flexible response 15 capability able to respond to a spectrum of events and 16 specific effects that could materialize. 17 The Diablo Canvon studies focused on two 18 areas where the most significant earthquake 19

interactions would be manifested: transportation and communications. The study also establishes a conceptual framework for an "earthquake response plan" which addresses both the response to the complicating effects of damage as well as advanced planning concepts to deal with the duality of radiological and earthquake emergency. The specific evaluations assumed a 7.5 magnitude surface wave located on the Hosgri fault.

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The consideration of a single, specified large earthquake is appropriate for two reasons: (1) the specific earthquake that was considered is the most logical one to be involved in a combined radiological/earthquake emergency and (2) the planning concepts determined to be appropriate are not particularly sensitive to the choice of earthquake size or location.

The postulated magnitude 7.5 earthquake on the Hosgri fault was chosen because of its use as the seismic design basis for the Diablo Canyon Power Plant and its dominant seismic hazard to the plant. Furthermore, the use of this large earthquake was responsive to the requests of FEMA and the NRC.

A large variability of off-site damage would be expected to result from the Hosgri earthquake. This diversity in damage comprehensively challenges emergency plans and requires them to be extremely flexible. The variety of damage scenarios considered largely envelops the expected effects of both smaller and larger earthquakes that might occur within San Luis Obispo County, the main difference being the relative likelihood of specific scenarios. The specific earthquake effects for three defined earthquake damage levels are provided in the report referenced in part (b) of this response.

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1	The emergency responses to these earthquake
2	effects will be highly dependent on the actual
3	situation that develops. This has been considered in
4	the development of an Earthquake Response Plan for
5	Diablo Canyon that provides for feedback of off-site
6	conditions to the responsible emergency organizations
7	so that recommendations for protective actions related
8	to radiological hazards can be appropriately adjusted.
9	Postulates of lesser or greater off-site effects will
10	not affect the type of response, but only the degree to
11	which additional outside resources would need to be
12	called on to supplement the local response.
13	
14	(b) Earthquake Emergency Planning At Diablo
15	Canyon, TERA Corporation, September 2, 1981.
16	
17	
18	
19	
20	INTERROGATORY NO. 17:
21	Describe all reports, assessments, studies,
22	analyses, or other documents (written, filmed, or recorded)
23	being prepared by or for PG&E that deal with any of the
24	following:
25	(a) The effects of an earthquake on emergency
26	response to a radiological emergency;

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1	(b) Evacuation time estimates for the evacuation
2	of the Diablo Canyon facility and the
E	emergency planning zones surrounding the
4	facility;
5	(c) The Diablo Canyon public information program;
6	and
7	(d) The consequences of a radiological emergency
8	at Diablo Canyon on the capability of offsite
9	entities to provide assistance to PG&E.
10	For each suc _tem described, specify who is
11	preparing the item, when it is scheduled to be completed,
12	and what the purpose(s) of the item is (are) intended to be.
13	
14	RESPONSE TO INTERROGATORY NO. 17:
15	(a) (b) and (d)
16	PGandE has ongoing efforts to assist local,
17	state and federal authorities in their radiological
18	emergency planning. However, no reports, assessments,
19	studies, analyses or other documents are now in
20	preparation by or for PGandE.
21	
22	(c) In addition to the response above, the
23	responses to interrogatories 3 and 4 provide this
24	information.
25	111
26	111
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1 INTERROGATORY NO. 18: 2 State in detail each and every fact which FG&E 3 believes evidences that PG&E's Emergency Response Plan will 4 comply with 10 C.F.R. § 50.33(g) by October 1, 1981. 5 6 RESPONSE TO INTERROGATORY NO. 18: 7 See interrogatory 26. 8 9 INTERROGATORY NO. 19: 10 State in detail each and every fact which PG&E believes evidences that the State of California's Emergency 11 12 Response Plan will comply with 10 C.F.R. § 50 33(g) by 13 October 1, 1981. 14 15 RESPONSE TO INTERROGATORY NO. 19: 16 See interroy ory 26. 17 18 INTERROGATORY NO. 20: State in detail each and every fact which PG&E 19 20 believes evidences that the County of San Luis Obispo's 21 Emergency Response Plan will comply with 10 C.F.R. 22 § 50.33(g) by October 1, 1981. 23 24 RESPONSE TO INTERROGATORY NO. CC: 25 See interrogatory 26. 26 111

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1 INTERROGATORY NO. 21: 2 State in detail each and every fact which PG&E 3 believes evidences that PG&E's Emergency Response Plan will 4 comply with 10 C.F.R. § 50.47 by October 1, 1981. 5 6 RESPONSE TO INTERROGATORY NO. 21: 7 See interrogatory 26. 8 9 INTERROGATORY NO. 22: 10 State in detail each and every fact which PG&E 11 believes evidences that the State of California's Emergency 12 Response Plan will comply with 10 C.F.R. § 50.47 by 13 October 1, 1981. 14 15 RESPONSE TO INTERROGATORY NO. 22: 16 See interrogatory 26. 17 18 INTERROGATORY NO. 23: 19 State in detail each and every fact which PG&E) believes evidences that the County of San Luis Obispo's 21 Emergency Response Plan will comply with 10 C.F.R. § 50.47 22 by October 1, 1981. 23 24 RESPONSE TO INTERROGATORY NO. 23: 25 See interrogatory 26. 26 111

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1	INTERROGATORY NO. 24:
2	State in detail each and every fact which PG&E
3	belie.es evidences that the PG&E Emergency Response Plan
4	will comply with 10 C.F.R. Part 50, Appendix E, by
5	October 1, 1981.
6	
7	RESPONSE TO INTERROGATORY NO. 24:
8	See interrogatory 26.
9	
10	INTERROGATORY NO. 25:
11	State in detail each and every fact which PG&E
12	believes evidences that the State of Cal.fornia's Emergency
13	Response Plan will comply with 10 C.F.R. Part 50,
14	Appendix E, by October 1, 1981.
15	
16	RESPONSE TO INTERROGATORY NO. 25:
17	See interrogatory 26.
18	
19	///
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21	111
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26	영상 사람은 물건을 받는 것을 가 없는 것을 얻는 것을 하는 것을 수가 있다. 것을 하는 것을 하는 것을 하는 것을 수가 있는 것을 수가 있다. 것을 수가 있는 것을 수가 있다. 것을 수가 있는 것을 수가 있다. 것을 수가 있는 것을 수가 있다. 것을 수가 있는 것을 수가 있다. 것을 수가 있는 것을 수가 있는 것을 수가 있는 것을 수가 있는 것을 수가 있다. 않는 것을 수가 있는 것을 수가 있다. 않는 것을 수가 있는 것을 수가 있다. 않는 것을 수가 있는 것을 수가 있다. 않는 것을 수가 있는 것을 수가 있는 것을 수가 있는 것을 수가 있는 것을 수가 있다. 않는 것을 수가 있는 것을 것을 수가 있는 것을 수가 않았다. 이 같이 같이 같이 같이 같이 않았다. 이 것을 것 같이 않았다. 것을 것 같이 않았다. 것 같이 않았다. 이 같이 같이 같이 같이 않았다. 것 같이 같이 같이 같이 않았다. 것 같이 같이 것 같이 않았다. 것 같이 하는 것 같이 않았다. 것 같이 같이 않았다. 것 같이 것 같이 같이 않았다. 않았다. 것 같이 않았다. 것 것 같이 않았다. 않았는 것 같이 않았다. 않았다. 않았는 것 같이 않았다. 않았다. 않았다. 않았는 것 않았다. 않았는 것 같이 않았다. 않았다. 않았는 것 않았는 것 않았다. 않았는 것 않았다. 않았는 것 같이 않았다. 않았는 것 않았다. 않았는 것 않았다. 않았는 것 않았는 것 않았다. 않았는 것 않았다. 않았는 것 않았는 것 않았다. 않았다. 않았는 것 않았다. 않았는 것 않았다. 않았다. 않았는 것 않았다. 않았는 것 않았다. 않았는 것 않았다. 않았다. 않었다. 않았다. 않았다. 않 않았다. 않 않았다. 않았다. 않 않았다. 않았다.
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INTERROGATORY NO. 26:

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State in detail each and every fact whith PG&E believes evidences that the County of San Luis Obispo's Emergency Response Plan will comply with 10 C.F.R. Part 50, Appendix E, by October 1, 1981.

RESPONSE TO INTERROGATORY NO. 26:

8 In response to interrogatories 18 through 26, it 9 is the Applicant's position that all applicable emergency 10 plans will be in compliance with all applicable regulations 11 prior to commercial operation of the Diablo Canyon nuclear 12 power plant in order to assure that adequate protective 13 measures can and will be taken in the event of a 14 radiological emergency.

15 This opinion is based on the individual and 16 collective judgment of Applicant's staff who have been 17 intimately involved in emergency response planning for the 18 past several years as well as the opinions of various 19 federal, state and county emergency response planners and 20 evaluators. In addition, Applicant has retained consultants 21 who have reviewed the various plans and applicable 22 regulations and have formed similar opinions. Finally, the 23 joint full field exercise conducted on August 19, 1981 24 demonstrated a capability to respond to a radiological 25 emergency at Diablo Canyon.

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1	INTERROGATORY NO. 27:
2	(a) Is it PG&E's position that the Diablo Canyon
3	TSC, OSC, and EOF meet the reliability requirements of
4	NUREG-0696? See NUREG-0696, p. 5.
5	(b) If the answer is YES, state in detail each
6	and every fact that supports such position.
7	(c) If NO, please explain in detail.
8	(d) Identify and describe all documents which
9	relate in any way to the emergency response facilities'
10	compliance or noncompliance with these NUREG requirements.
11	
12	RESPONSE TO INTERROGATORY NO. 27:
13	(a) Yes.
14	
15	(b) NUREG-0737 further defines criteria for
16	emergency operating facilities originally required by
17	NUREG-0696. The Applicant plans to comply with these
18	dated requirements.
19	
20	(c) Not applicable.
21	
22	(d) NUREG-0696, SER Supp. 14, D. G. Eisenhut's
23	letter of February 18, 1981, NUREG-0737.
24	
25	
20	
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1 INTERROGATORY NO. 28:

2 (a) Is it PG&E's position that the Diablo Canyon 3 interim EOF meets the requirement that it be "well 4 engineered for the design life of plant?" NUREG-0696, 5 p. 18. 6 (b) If YES, identify and describe all analyses or 7 other documents which relate in any way to the EOF's 8 compliance or noncompliance with this requirement. 9 (c) If NO, please explain in detail, including a 10 description of all documents which relate thereto. 11 (d) Describe the seismic qualification of PG&E's 12 interim EOF, including a description of the facility and all 13 analyses or other documents which relate in any way to the 14 likelihood that that facility and all equipment therein 15 would remain functional in the OBE, the SSE, and in the 16 event of an earthquake greater than the SSE. 17 18 RESPONSE TO INTERROGATORY NO. 28: 19 (a) 20. 20 21 (b) N/A. 22 23 111 24 111 25 111 26

1 (C) The interim E.O.F. is a temporary facility 2 and therefore is not designed for the life of the 3 plant. It is PGandE's intention to construct a 4 permanent E.O.F. designed for the life of the plant. 5 6 (d) Refer to TERA Report 'Earthquake Emergency 7 Planning at Diablo Canyon," September 2, 1981. 8 9 10 11 12 INTERROGATORY NO. 29: 13 Identify and describe: (a) all measures taken by 14 PG&E to integrate its security plan with its emergency plan; 15 (b) all training provided to security personnel concerning 16 the onsite emergency plan; (c) all drills or exercises of 17 the emergency plan that involve the threat designated by 10 18 C.F.R. § 73.1; and (d) all meetings held by PG&E with State 19 and/or County officials concerning situations that would 20 involve both the onsite and offsite emergency plan and the 21 security plan. 22 23 RESPONSE TO INTERROGATORY NO. 29: 24 Objected to by Applicant as toually irrelevant to 25 the instant proceedings. The security plan and the details 26 thereof are restricted and have been the subject of

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1	litigation heretofore between the parties. The security
2	plan is not a part of these proceedings nor can it be.
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7	INTERROGATORY NO. 30:
8	Describe all human factors or other analyses which
9	have been performed on or are proposed to be performed on
10	PG&E's emergency operating procedures. When and by whom was
11	each analysis performed?
12	
13	RESPONSE TO INTERROGATORY NO. 30:
14	Objected to as irrelevant and outside the scope of
15	discovery. Emergency operating procedures are not the
16	subject of the contention before this Board, but rather
17	emergency planning under 10 C.F.R. §§ 50.33(g), 50.47 and
18	Appendix E to Part 50.
19	
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23	INTERROGATORY NO. 31:
24	Describe all equipment which has not been
25	seismically and environmentally qualified but which PG&E may
26	use or rely upon in any way during a radiological emergency
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1 at Diablo Canyon. Include in your response a description of 2 the use(s) of each identified item of equipment. 3 4 RESPONSE TO INTERROGATORY NO. 31: 5 As with interrogatory 7, this guestion is 6 impossible to answer in that it asks for a list of all 7 equipment which PGandE may use or rely on in any way during 8 a radiological emergency. However, other than class one 9 structures and systems at Diablo Canyon, little equipment 10 which might be relied upon in any way would be seismically 11 or environmentally "qualified" as no such requirement exists 12 nor could reasonably be expected to exist. 13 14 15 16 17 INTERROGATORY NO. 32: 18 On Thursday, August 20, 1981, representatives of 19 PG&E, San Luis Obispo County, and others met at the 20 Sheriff's office to discuss, inter alia, the emergency exercise wich was conducted on August 19, 1981. 21 22 (a) Who was present at the August 20, 1981 meeting on behalf of PG&E? 23 24 (b) Describe all statements of PG&E made at that meeting, including, without limitation, any statements 25 26 concerning problems identified in the August 19 exercise.

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1	(c) Identify and describe all documents which
2	relate in any way to the August 20, 1981 meeting, including:
3	(1) any notes taken by any person identified in (a) above;
4	(2) any documents taken to the meeting by any such person;
5	and (3) any memoranda or other documents prepared after the
6	meeting which relate in any way to the meeting or to the
7	August 19 exercise.
8	
9	RESPONSE TO INTERROGATORY NO. 32:
10	(a) The following PGandE personnel were present
11	at the meeting held August 20, 1981 at the San Luis
12	Obispo County Sheriff's Office:
13	W. B. Kaefer R. J. McDevitt D. J. Baxter
14	W. J. Xeyworth D. P. Serpa J. L. Potter J. D. Shiffer D. L. Duke S. M. Fandel
15	S. M. Skidmore R. W. Lorenz J. S. McKarns
16	(b) Three Company representatives made statements
17	at the meeting. Their statements are summarized below:
18	(1) J. D. Shiffer Because he was stationed in EOF
19	during the exercise, he did not directly observe
20	EOC. However, things seemed to go well from his
21	vantage point. He reminded people in EOC that if
22	they needed assistance from PGandE, they should
23	call Mr. Shiffer, who is the Company Recovery
24	Manager.
25	(2) <u>W. B. Kaefer</u> He was impressed with county
26	decision makers, and he agreed with their
1	-78-

1	decisions. He agreed that they should have
2	provided more feedback to Mr. Shiffer.
3	(3) D. J. Baxter He was impressed with the number
4	of news releases and the information they
5	contained. The problems he observed were minor.
6	He suggested more coordination between the Company
7	and the county. He noted that the first press
8	conference was held without a Company technical
9	advisor being present.
10	
11	(c) No notes were taken by persons in (a) above
12	at the August 20, 1981 meeting. Critiques of the
13	August 19, 1981 drill and notes regarding that drill
14	were developed by PGandE and will be produced pursuant
15	to pending requests for production.
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20	INTERROGATORY NO. 33:
21	Describe the Uniform Dose Assessment Center
22	("UDAC") and its functions. Does PG&E contend that UDAC and
23	related equipment will remain fully functional in the event
24	of the OBE?, the SSE?, an earthquake greater than the SSE?
25	Describe all analyses or att . documents which relate in any
26	way to UDAC and/or its seismic qualification.

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1 RESPONSE TO INTERROGATORY NO. 33:

2	The Unified Dose Assessment Center (UDAC) is
3	co-located with the County Emergency Operations Center (EOC)
4	and the Emergency Operations Facility (EOF). Its function
5	is to coordinate radiological data from field monitoring
6	teams, the PGandE Emergency Assessment and Response System
7	(EARS) dose projection system, dose projections by other
8	means such as overlays and hand calculations within UDAC and
9	other sources and to prepare integrated recommendations to
10	the County Health Officer throughout the emergency
11	situation.

12 The UDAC is under the direction of the SLO County 13 Director of Environmental Health and represents the combined 14 technical expertise (in radiological assessment) of the 15 County, PGandE, State of California, and federal agencies. 16 Therefore, the UDAC is utilized as the primary source of 17 recommendations for instituting protective measures for the 18 public which are presented to the County decision makers. 19 The responsibilities of the UDAC include but are not limited 20 to the following areas: (1) assessment of the radiological 21 significance of the radioactive plume; (2) assessment of the 22 significance of the radioactive plume on food and water 23 supplies; (3) recommendation of protective actions which are 24 presented to decision makers on plume and ingestion 25 pathways; (4) review of data from the field and the making 26 of recommendations to control exposure to emergency workers

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1 or authorization of exposures in excess of exposure limits 2 for emergency workers engaged in lifesaving operations; (5) 3 assessment of the need to screen evacuees for radioactive 4 contamination and recommending conduct of screening and 5 decontamination actions if required; and (6) evaluation of 6 contamination levels in areas evacuated in order to 7 recommend actions to be taken during the recovery and 8 reentry phase.

9 The Applicant assumes for purposes of answering 10 questions regarding OBE and SSE that these earthquakes occur 11 directly opposite the site on the Hosgri resulting in OBE 12 and SSE ground motion at the site. In such event, UDAC and 13 its related equipment will remain functional. As for "an 14 earthquake greater than the SSE," Applicant simply cannot 15 answer. How much greater? As for documents, see answer to 16 interrogatory 34.

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INTERROGATORY NO. 34:

For the OBE and the SSE, provide the peak horizontal ground accelerations, velocity, and displacement which PG&E predicts will occur at each of the following locations:

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1	(a) The onsite meterological [sic] tower.
2	(b) The mountain-top radio repeater.
3	(c) Morro Bay.
4	(d) The PG&E Information Center.
5	(e) The Avila Beach guard station.
6	(f) The EOF.
7	(g) Each siren location.
8	(h) Each offsite environmental monitoring station.
9	(i) Each real-time monitoring station.
10	(j) The Montana de Oro Campground.
11	(k) San Luis Ambulance Service.
12	(1) French Hospital.
13	(m) Shell beach.
14	
15	RESPONSE TO INTERROGATORY NO. 34:
16	The basis for estimating peak ground-motion values
17	used in the earthquake emergency planning study is a TERA
18	Corporation report entitled "Evaluation of Peak Horizontal
19	Ground Acceleration Associated with the Hosgri Fault at
20	Diablo Canyon Nuclear Power Plant, " submitted to Pacific Gas
21	and Electric Company in August, 1980. Equation 3-3 in this
22	report has been used to estimate the horizontal peak ground
23	acceleration at all locations as requested. These values
24	may be found in the attached Tables I-IV.
25	For the purposes of estimating peak acceleration,
26	the SSE was taken to be a surface magnitude 7.5 earthquake

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1	located offshore on the Hosgri fault. The OBE has been
2	specified only in terms of a peak acceleration of 0.2 g.
3	Placing the OBE on the Hosgri fault, Equation 3-3 was used
4	as a basis for estimating a local Richter magnitude of 5.7
5	for this earthquake. This magnitude was then used to
6	estimate peak acceleration for the OBE at all specified
7	locations. Velocity and displacement values have not been
8	calculated.
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TABL: 1 ESTIMATED PEP . ACCELERATION AT ELEVEN MISCELLANEOUS SITES

LOCATION	DISTANCE FROM HOSGRI FAULT (km)	PEAK ACCELERAT	'i∠d (g) OBE
On-Site Meterological Tower	5.8	. 48 -	. 20
Mountain-Top Radio Repeater	13.3	.32	.13
Morro Bay	14.1	.31	.10
PGandE Information Center	17.4	.27	.08
Avila Beach Suard Station	12.5	. 33	.,1
Emergency Off-Site Facility	21.6	.23	.07
Montana de Oro Campground	7.0	.44	.18
San Luis Ambulance Service	25.9	.21	.06
French Hospital	26.6	. 20	.06
Shell Beach	17.2	.27	.08
Pismo Beach	18.1	.27	. 08

1	13.4 14.0	.32	.10
	14.0		
2		.31	.10
3	14.0	.31	.10
4	14.6	.30	.10
5	13.7	.32	.10
6	13.3	.32	.10
7	14.8	. 30	.10
8	16.8	.28	.09
9	19.1	. 26	.08
10	21.6	.23	.07
11	23.5	.22	.06
12	25.6	.21	.06
13	25.8	.21	.06
14	27.4	.20	.0.
15	25.4	.21	.06
16	26.6	. 20	.06
17	24.2	. 22	.06
18	22.0	. 23	.07
19	24.7	.21	.06
20	22.5	.23	.06
21	24.5	.2.	.06
22	26.0	.21	.00
23	22.7	.23	. 01
24	19.7	.25	.0
25	18.6	. 26	.0
. 26	19.5	. 25	.0
27	18.1	.27	.0
28	16.5	. 28	.0
29	16.5	. 28	.0

TABLE II ESTIMATED PEAN ACCELERATION AT SIREN 'OCATIONS

*See PGandE Emergency Plan Figure 7.2-3 for locations.

SIREN REFERENCE NUMBER	DISTANCE FROM HOSGRI FAULT (km)	PEAK ACCELERATION SSE	(g) OBE
30	15.9	.28	.08
31	17.2	.27 .	.08
32	18.1	.27	.08
33	19.3	. 25	.08
34	18.6	.26	.08
35	19.9	. 25	.07
36	22.9	.23	.06
37	20.4	.24	.07
38	18.0	. 27	.08
39	17.2	. ??	.08
40	16.6	. 28	.09
41	18.1	.27	.08
42	19.6	. 25	.07
43	19.6	. 25	.07
44	17.7	. 27	.08
45	19.9	. 25	.07
46	16.1	.29	.09
47	18.5	.26	.08
48	19.9	. 25	.07
49	17.8	. 27	.08
50	13.4	.32	.10
51	14.0	.31	.10
52	11.0	.36	.12
53	13.6	.32	.10
54	15.4	.29	. 09
55	14.2	.31	.10
56	14.5	.31	.10
57	17.8	.27	.08
58	19.6	. 25	.07
59	21.6	.24	. 07
60	22.0	. 23	.07
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SIREN REFERENCE NUMBER	DISTARCE FROM HOSGRI FAULT (km)	PEAK ACCELERATION	(g) OBE
62	22.0	.23	.07
63	18.9	.26	.08
64	15.6	. 29	.09
65	15.6	. 29	.09
66	15.7	. 29	.09
67	16.8	. 28	.09
68	16.8	. 28	. 09
69	16.8	. 28	.09
70	14.4	.31	.10
71	12.1	.34	.11
72	5.9	.47	. 20
73	5.2	. 49	. 22
74	6.6	.45	.18
75	7.6	.43	.17
76	18.9	. 26	.08

TABLE II (continued)

TABLE 111 ESTIMATED PEAK ACCELERATION AT OFF-SITE ENVIRONMENTAL MONITORING STATIONS

ENVIRONMENTAL MONITORING STATION REFERENCE NUMBER*	DISTANCE FROM HOSGRI FAULT (km)	PEAK ACCELERAT	ION (g) OBE
1	14.1	.31 .	.10
2	13.4	.32	.10
3	11.0	. 36	.12
4	13.8	.31	.10
5	7.6	.43	.17
6	5.2	.49	.22
7	5.6	. 48_	. 21
8	3.6	.40	.15
9	11.4	. 35	.12
10	14.4	.31	.10
11	13.4	.32	.10
12	17.0	. 28	.08
13	27.0	. 20	.05
14	26.2	. 20	.06
15	25.4	. 21	.06
16	14.0	.31	.10
17	13.6	.32	.10
18	17.4	.27	.08
19	19.6	. 25	.07
20	16.1	.29	.09
21	16.8	.28	.09

*See PGandE Emergency Plan Figure 7.3-3 for locations.

TABLE IV ESTIMATED PEAK ACCELERATION AT OFF-SITE REAL TIME RADIATION MONITORS

MONITOR REFERENCE NUMBER*	DISTANCE FROM HOSGRI FAULT (km)	PEAK SSE	ACCELERATION	(g) OBE
1	14.1	.31		.10
2	12.3	.34		.11
3	21.6	. 23		.07
4	25.9	.21		.06
5	25.5	.21		.06
6	17.4	.27		. 08
7	12.5	.33		.11
8	18	.27		.05
9	19.5	. 25		.07

*See PGandE Emergency Plan Figure 7.3-4 for locations.

1 2 Respectfully submitted, 3 MALCOLM H. FURBUSH PHILIP A. CRANE, JR. 4 RICHARD F. LOCKE Pacific Gas and Electric Company 5 P.O. Box 7442 San Francisco, California 94120 6 (415) 781-42) 7 ARTHUR C. GEHR Snell & Wilmer 8 3100 Valley Center Phoenix, Arizona 85073 9 (602) 257-7288 10 ERUCE NORTON Norton, Burke, Berry & French, P.C. 11 3216 N. Third Street Suite 300 Phoenix, Arizona 85012-2699 12 (602) 264-0033 13 Attorneys for 14 Pacific, Gas and Electric, Company 15 no 16 By Bruce Norton 17 18 DATED: September 15, 1981. 19 20 22 22 23 24 25 26 -90-

I have assisted in preparing the answers to Interrogatories <u>32</u>. Said answers are true and correct to the best of my knowledge and belief.

hiffer SHIFFER

Subscribed and sworn to before me this 15th day of September, 1981.

SEAL

Theodora Cooke, Notary Public in and for the City and County of San Francisco, State of California

I have assisted in preparing the answers to Interrogatories <u>5, 6, 17 and 28</u>. Said answers are true and correct to the best of my knowledge and belief.

Imore

S. M. SKIDMORE

Subscribed and sworn to before me this 15th day of September, 1981.

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SEAL

Theodora Cooke, Notary Public in and for the City and County of San Francisco, State of California

I have assisted in preparing the answers to Interrogatories <u>11</u>. Said answers are true and correct to the best of my knowledge and belief.

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A. R. TORRENS

Subscribed and sworn to before me this 15th day of September, 1981.

SEAL Theodora Cooke, Notary Public in and for the City and County

in and for the City and County of San Francisco, State of California

I have assisted in preparing the answers to Interrogatories <u>28 and 33</u>. Said answers are true and correct to the best of my knowledge and belief.

F. M. GERMANO

Subscribed and sworn to before me this 15th day of September, 1981.

SEAL

Theodera Cooke, Notary Public in and for the City and County of San Francisco, State of California

I have assisted in preparing the answers to Interrogatories <u>11</u>. Said answers are true and correct to the best of my knowledge and belief.

J. L. Potter

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J. C. POLLEI

Subscribed and sworn to before me this 15th day of September, 1981.

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Sec.

No. of

SEAL

Theodora Cooke, Notary Public in and for the City and County of San Francisco, State of California

I have assisted in preparing the answers to Interrogatories 3, 4, 8 and 17 . Said answers are true and correct to the best of my knowledge and belief.

Fait J. Rockmaller F. ROCKMAKER

Subscriben and sworn to before me this 15th day of September, 1981.

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SEAL

Theodora Cooke, Notary Public in and for the City and County of San Francisco, State of California

I have assisted in preparing the answers to Interrogatories <u>8, 9 and 10</u>. Said answers are true and correct to the best of my knowledge and belief.

K. M. GODFREY/

Subscribed and sworn to before me this 15th day of September, 1981.

SEAL

Theodora Cooke, Notary Public in and for the City and County of San Francisco, State of Colifornia

I have assisted in preparing the answers to Interrogatories 5, 6, 12, 14, 15, 32. Said answers are crue and correct to the best of my knowledge and belief.

. J. McDEVITT

Subscribed and sworn to before me this 15th day of September, 1981.

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SEAL

Theodora Cooke, Notary Public ir and for the City and County of San Francisco, State of California

I have assisted in preparing the answers to Interrogatories <u>14 and 27</u>. Said answers are true and correct to the best of my knowledge and belief.

W. H. FUJIMOTO

Subscribed and sworn to before me this 15th day of September, 1981.

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SEAL Theodora Cooke, Notary Public

in and for the City and County of San Francisco, State of California

I have assisted in preparing the answers to Interrogatories 2,9 Said answers are true and correct to the best of my knowledge and belief.

uelas Prener

D. P. SERPA

Subscribed and sworn to before me this 15th day of September, 1981.

(SEAL Theodora Cooke, Notary Public

in and for the City and County of San Francisco, State of California

I have assisted in preparing the answers to Interrogatories <u>27</u>. Said answers are true and correct to the best of my knowledge and belief.

Wallac

G. WALLACE

Subscribed and sworn to before me this 15th day of September, 1981.

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SEAL

Theodora Cooke, Notary Public in and for the City and County of San Francisco, State of California

I have assisted in preparing the answers to interrogatories <u>1 and 2</u>. Said answers are true and correct to the best of my knowledge and belief.

T. A. Mack

Subscribed and sworn to before me this 15th day of September, 1981.

SEAL Theodora Cooke, Notary Public

in and for the city and County of San Francisco, State of California

I have assisted in preparing the answers to Interrogatories <u>16, 17 and 34</u>. Said answers are true and correct to the best of my knowledge and belief.

D. K. DAVIS

Subscribed and sworn to before me this 15th day of September, 1981.

SEA

Theodora Cooke, Notary Public in and for the City and County of San Francisco, State of California

UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

TTI CORRESPONDENC

In the Matter of

PACIFIC GAS AND ELECTRIC COMPANY

Diablo Canyon Nuclear Power Plant, Units 1 and 2 Docket No. 50-275 Docket No. 50-323

1 2 193

(Full Power Proceeding)

CERTIFICATE OF SERVICE

The foregoing document(s) of Pacific Gas and Electric Company has (have) been served today on the following by deposit in the United States mail, properly stamped and addressed:

Judge John F. Wolf Chairman Atomic Safety and Licensing Board U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Judge Glenn O. Bright Atomic Safety and Licensing Board U. S. Muclear Regulatory Commission Washington, D. C. 20555

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Secretary U. S. Nuclear Regulatory Commission Washington, D. C. 20555

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Judge John H. Buck Atomic Safety and Licensing Appeal Board U. S. Nuclear Regulatory Commission Washington, D. C. 20555

Pacific Gas and Electric Company

Date: September 15, 1981