

REGULATOR INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8310250115 DOC. DATE: 83/10/19 NOTARIZED: NO DOCKET #
 FACIL: 50-275 Diablo Canyon Nuclear Power Plant, Unit 1, Pacific Ga 05000275
 AUTH. NAME AUTHOR AFFILIATION
 SCHUYLER, J.O. Pacific Gas & Electric Co.
 RECIP. NAME RECIPIENT AFFILIATION
 EISENHUT, D.G. Division of Licensing

SUBJECT: Forwards replacement pages to 831014 final update to design verification program Phase I final rept.

DISTRIBUTION CODE: D013S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 13
 TITLE: Diablo Canyon (50-275) Independent Design Verification Program

NOTES: J Hanchett 1cy PDR Documents.

05000275

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		LTTR	ENCL			LTTR	ENCL
	NRR LB3 BC	1	0		NRR LB3 LA	1	1
	SCHIERLING, H 06	1	1				
INTERNAL:	ELD/HDS2	1	0		IE/DEPER DIR	1	1
	IE/DEPER/EPB 11	1	1		IE/DQASIP DIR	1	1
	NRR SCHIERLING	1	1		NRR/DE/CEB 12	1	1
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	NRR/DSI/ICSB	1	1		NRR/DSI/PSB	1	1
	REG FILE 04	1	1		RGN5 08	2	2
	RM/DDAMI/MIB	1	0				
EXTERNAL:	ACRS 19	16	16		LPDR 03	2	2
	NRC PDR 02	1	1		NSIC 05	1	1
	NTIS	1	1				
NOTES:		1	1				

1. The first step is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

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[illegible]

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PACIFIC GAS AND ELECTRIC COMPANY

PG&E



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J. O. SCHUYLER
VICE PRESIDENT
NUCLEAR POWER GENERATION

October 19, 1983

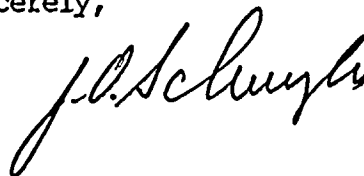
Mr. Darrell G. Eisenhower, Director
Division of Licensing
Office of Nuclear Regulatory Regulation
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Re: Docket No. 50-275, OL-DPR-76
Diablo Canyon Unit 1
Design Verification Program Phase I Final Report

Dear Mr. Eisenhower:

On October 14, 1983, PGandE submitted the final update to the Phase I Final Report. Enclosed are replacement pages incorporating corrections to some tables and figures included in that submittal.

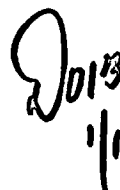
Sincerely,



Enclosure

cc: W. E. Cooper
J. B. Martin
Service List

8310250115 831019
PDR ADDCK 05000275
R PDR



1942

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1944

TO UPDATE THE PHASE I FINAL REPORT

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Table 2.1.1-37

CONTAINMENT SHELL - REBAR AND CONCRETE STRESSES, EXCLUDING LINER PLATE

Load Combination	Elevation (ft)	Inner Rebar ^a		Outer Rebar ^a			Concrete ksi
		0° ^b or 30° ^c ksi	90° ^b or -30° ^c ksi	Hoop ksi	30° ^c ksi	-30° ^c ksi	
1.05 D + P + HE + T'	166	8.6	52.9	35.4	8.6	47.5	-2.7
.95 D + 1.5 P + T''	282	25.3	29.8	38.7	38.0	38.3	-1.0
1.05 D + 1.5 P + T'''	231	16.8	41.9	56.7	37.7	36.8	-2.2
1.05 D + P + DDE + T'	166	6.7	29.4	39.8	17.9	40.7	-2.0

Notes

- (a) Angles indicate the direction of the inclined rebars with respect to the meridional direction
- (b) Above the spring line
- (c) At and below the spring line

Table 2.1.1-39

BASE SLAB MOMENT COMPARISON

Beam No.*	Operating		Accident		Accident With Hosgri	
	Moment Demand (ft-k)	Moment Capacity (ft-k)	Moment Demand (ft-k)	Moment Capacity (ft-k)	Moment Demand (ft-k)	Moment Capacity (ft-k)
62	15,293 --	37,640 -50,600	12,827 -37,772	36,925 -156,900	20,134 -44,967	41,250 -175,875
225	59,630 --	88,835 -18,275	75,492 --	279,275 -54,375	109,844 --	314,000 -61,083
43	12,126 --	51,880 -18,275	56,623 --	167,925 -54,375	69,444 --	188,124 -61,083
24	14,483 --	25,940 -9,138	64,157 --	83,963 -27,188	68,263 --	94,062 -30,541
129	23,425 --	88,835 -18,275	76,480 --	279,275 -54,375	93,238 --	314,000 -61,083
216	23,013 --	37,640 -50,600	19,780 -21,785	36,925 -156,900	26,007 -67,471	41,250 -175,875
171	1,898 -6,884	6,675 -30,360	-- -37,497	22,155 -94,140	5,831 -55,206	24,750 -105,525

*See Figure 2.1.1-44

+ = Tension on Bottom

- = Tension on Top

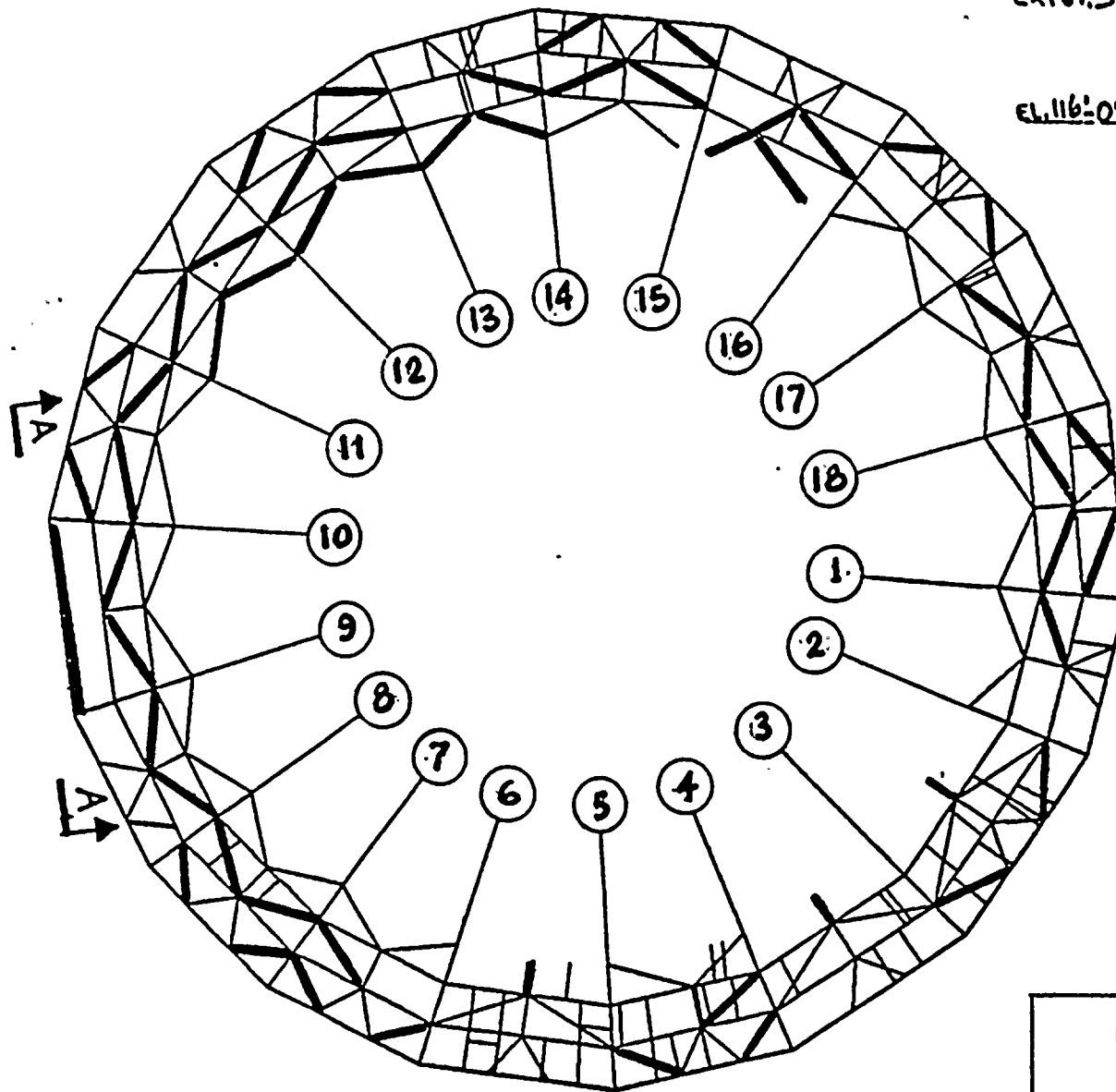
Table 2.1.1-42

EQUIPMENT HATCH

ELEMENT STRESSES IN HEXAGONAL PLATE

LOAD CASE: 1.05D + 1.5P + T" WITHOUT LINER

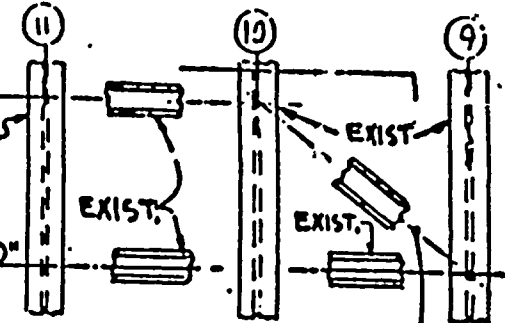
Element # No.	Principal Stresses		Maximum Shear (ksi)
	Max. (ksi)	Min. (ksi)	
3	8.85	-2.11	5.48
4	12.68	-0.52	6.60
11	27.91	0.41	13.75
12	25.01	-1.56	13.29
21	52.28	2.69	24.80
22	42.12	-0.58	21.35
51	17.33	3.43	6.95
52	18.43	5.62	6.41
59	29.04	0.57	14.24
60	27.26	2.24	12.51
69	37.83	8.85	14.49
70	30.62	7.76	11.43
99	22.33	14.94	3.70
100	23.70	14.48	4.61
107	28.94	4.47	12.24
108	27.97	7.39	10.29
117	22.26	9.42	6.42
118	19.68	9.47	5.11



T.O.C. EL. 130'
EL. 129'-6"

EXIST.

EL. 116'-0"



NEW (PROPOSED)
W12X96 W/1/2" SIDE PLATES

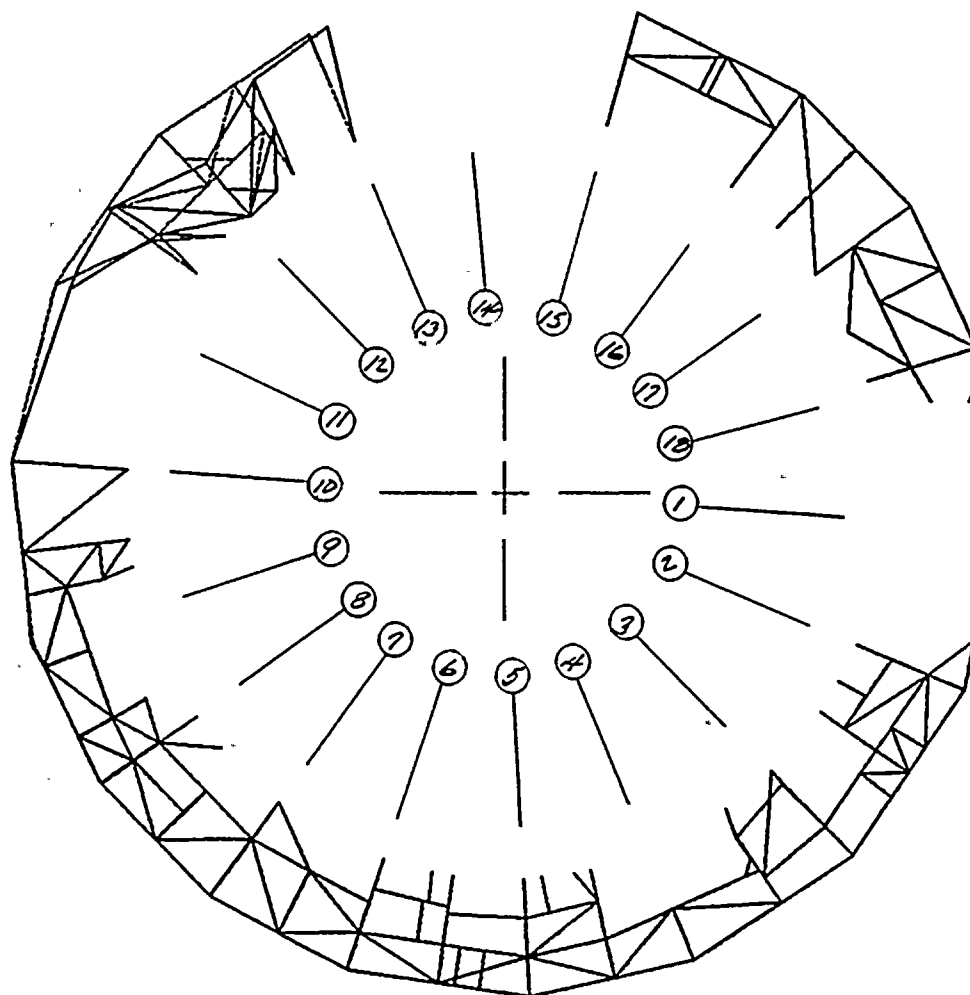
SECT. A-A

FIGURE 2.1.1-17

DIABLO CANYON POWER PLANT
UNIT I

CONTAINMENT ANNULUS
STRUCTURE - EL. 117'
HORIZONTAL DYNAMIC MODEL

10/14/83



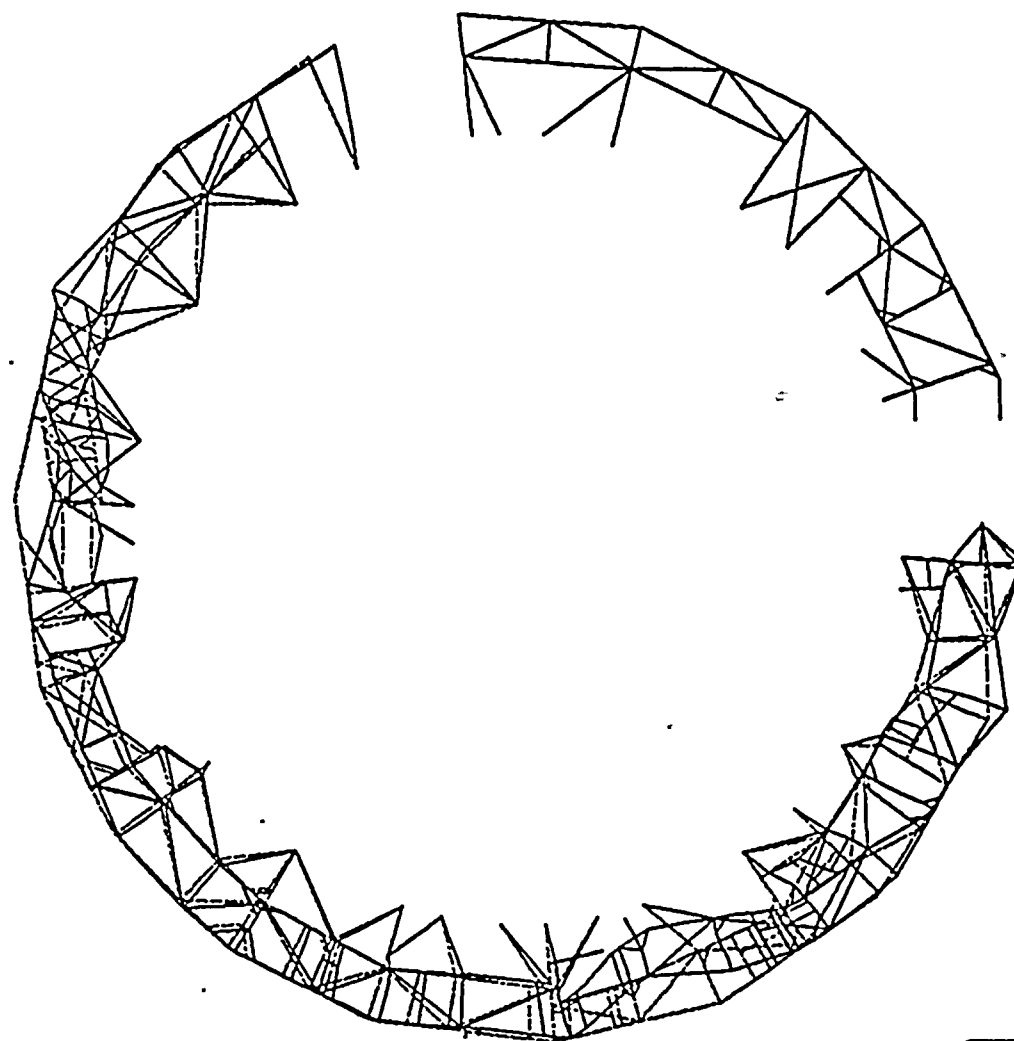
EL. 101'-0"
MODE SHAPE 2
FREQ.=21.70 CPS

FIGURE 2.1.1-35

DIABLO CANYON POWER PLANT
UNIT 1

CONTAINMENT ANNULUS STRUCTURE
EL. 101' HORIZONTAL VIBRATION
MODE 2

10/14/83



ELEV. 106'-0"

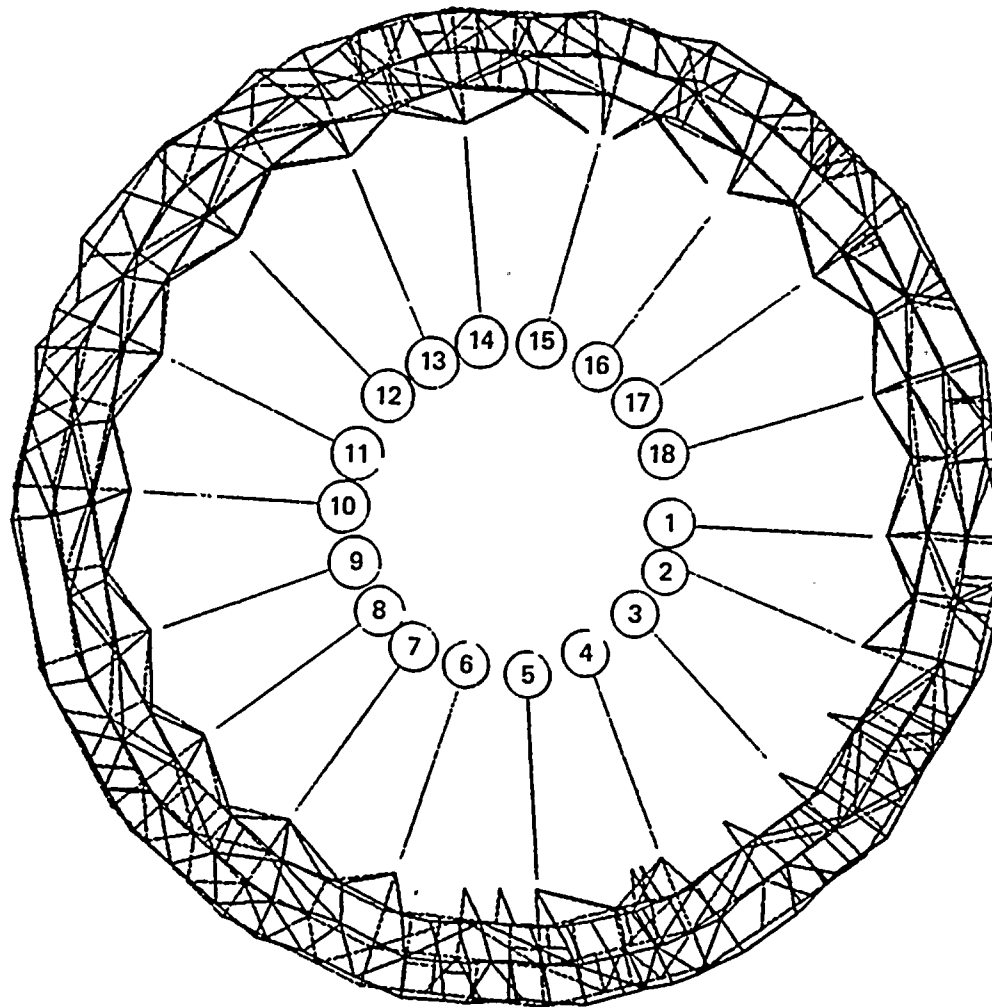
MODE SHAPE 2
FREQ.=22.77 CPS

FIGURE 2.1.1-37

DIABLO CANYON POWER PLANT
UNIT 1

CONTAINMENT ANNULUS STRUCTURE
EL. 106' HORIZONTAL VIBRATION
MODE 2

10/14/83



EL. 117'

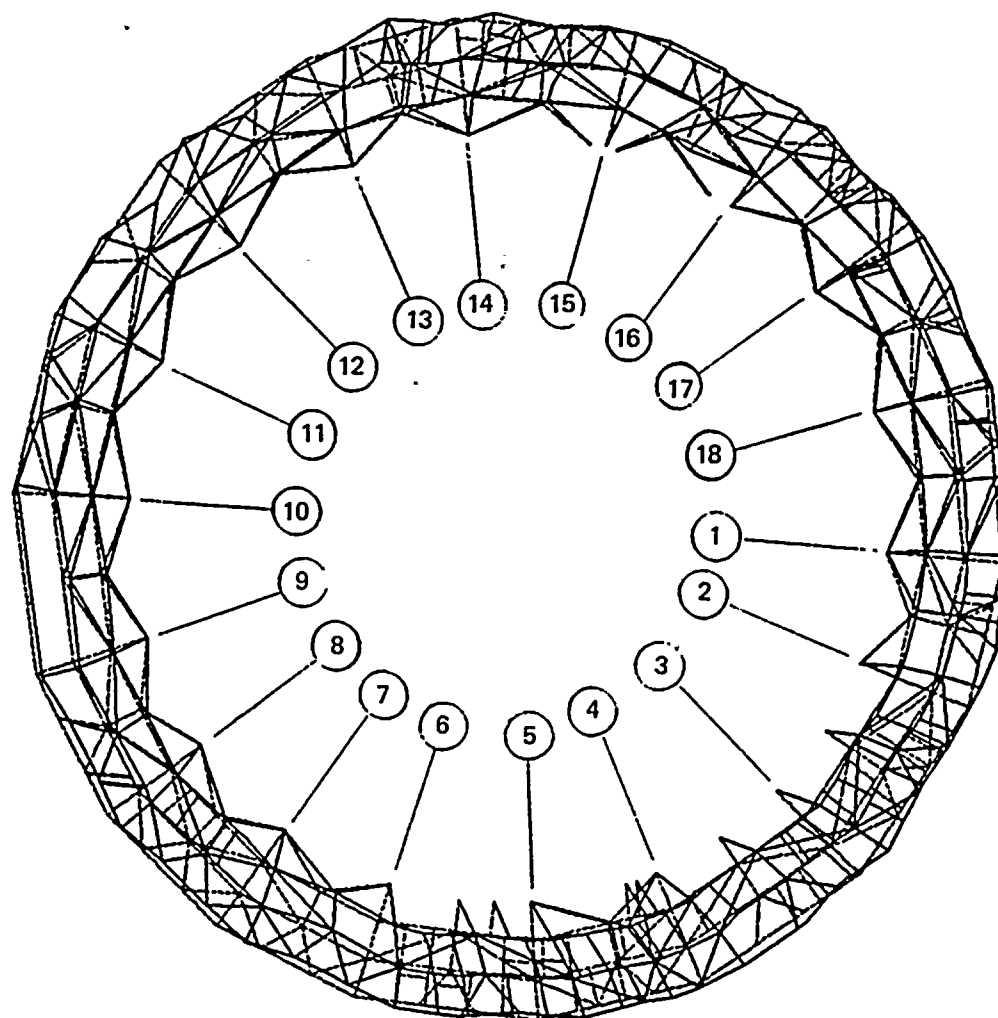
MODE SHAPE 1
FREQ. = 20.18 CPS

FIGURE 2.1.1-38

DIABLO CANYON POWER PLANT
UNIT 1

CONTAINMENT ANNULUS STRUCTURE
EL. 117' HORIZONTAL VIBRATION
MODE 1

10/14/83



EL. 117'

MODE SHAPE 2
FREQ. = 22.74 CPS

FIGURE 2.1.1-39

DIABLO CANYON POWER PLANT
UNIT 1

CONTAINMENT ANNULUS STRUCTURE
EL. 117' HORIZONTAL VIBRATION
MODE 2

10/14/83

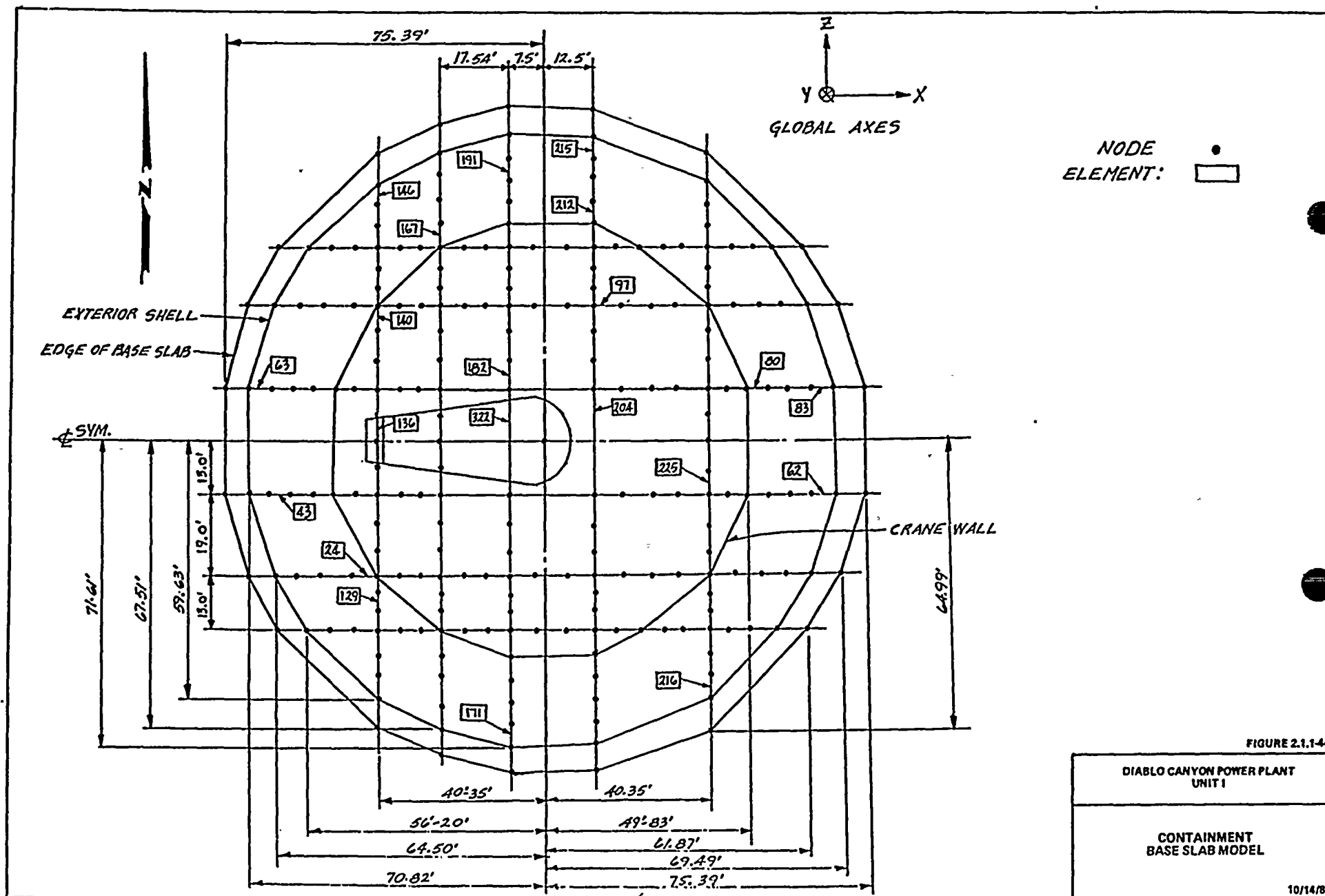


FIGURE 2.1.1-44

DIABLO CANYON POWER PLANT
UNIT 1

CONTAINMENT
BASE SLAB MODEL

TABLE 2.1.4-20 (Cont'd)

Mode No.	Frequency Hz.	Participation Factor		Cumulative Percent Modal Masses	
		North-South	East-West	North-South	East-West
184	26.62	-0.05	0.27	92.0	91.6
185	27.10	0.23	-0.67	92.0	92.0
186	27.33	0.17	0.15	92.1	92.0
187	27.45	0.03	0.03	92.1	92.0
188	27.78	0.47	0.21	92.3	92.0
189	28.14	0.11	0.02	92.3	92.0
190	28.30	0.28	0.04	92.4	92.0
191	28.41	-0.21	-0.51	92.4	92.3
192	28.61	0.32	-0.17	92.5	92.3
193	29.03	0.33	0.03	92.6	92.3
194	29.21	-0.24	-0.01	92.6	92.3
195	29.36	-0.31	-0.31	92.7	92.4
196	29.49	-0.14	-0.38	92.7	92.5
197	29.72	-0.13	0.48	92.8	92.7
198	30.09	0.36	-0.02	92.9	92.7
199	30.35	0.34	0.02	93.0	92.7
200	30.81	0.23	0.26	93.0	92.8
201	30.95	-0.28	-0.09	93.1	92.8
202	31.15	0.48	-0.61	93.3	93.1
203	31.38	-0.36	-0.12	93.4	93.1
204	31.55	-0.10	0.04	93.4	93.1
205	31.83	0.00	0.01	93.4	93.1
206	32.19	0.52	0.47	93.6	93.3
207	32.94	0.44	-0.14	93.8	93.3
208	32.97	-0.18	0.04	93.8	93.3
209	33.02	-0.45	0.09	94.0	93.4

*Case 3 is where Unit 1 crane is unloaded and is at column line 16,
and Unit 2 crane has a 125-ton load and is at column line 18.

