

# ***Civil Construction***

## ***LIGO Technical Foundation Analyses***

### ***Appendix A -- Book 3 Computer Results For Ambient PSD Induced Vibrations***

December 4, 1995

**LIGO**

**Laser Interferometer Gravitational-Wave Observatory**

**California Institute of Technology**

**The Ralph M. Parsons Company**

**Contract Number: PP150969**

**LIGO Document**

**LIGO-9901287-00-C-A3**

**Parsons-LIGO**



Laser Interferometer Gravitational-Wave Observatory

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## Appendix A

### Computer Results For Ambient PSD Induced Vibrations

#### Book 1

- LVEA Model T = 68 Inches
- LVEA Model T = 36 Inches

#### Book 2

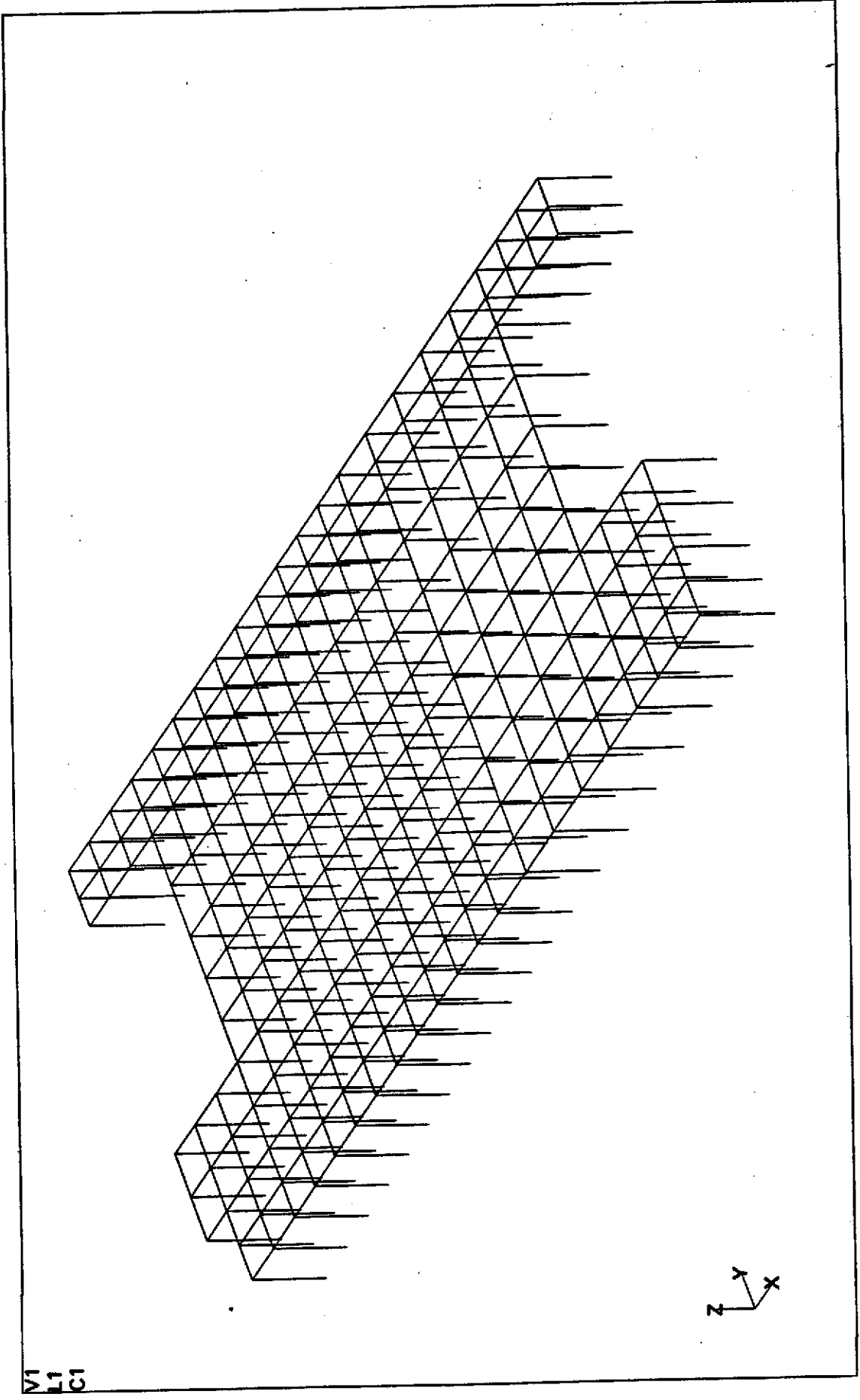
- LVEA Model T = 18 Inches
- LVEA PSD Plots
  - Correlated -- COR
  - Uncorrelated -- UNC

#### Book 3

- MID-PB1 Model T = 68 Inches
- MID-PB1 Model T = 36 Inches
- MID-PB1 Model T = 18 Inches
- Mid Station PSD Plots
  - Correlated -- COR
  - Uncorrelated -- UNC
- END-PB1 Model T = 68 Inches
- END -PB1 Model T = 36 Inches
- END -PB1 Model T = 18 Inches
- End Station PSD Plots
  - Correlated -- COR
  - Uncorrelated -- UNC

MID-PB1 MODEL T = 68 INCHES

(FILE: MIDPB68.SDN)



M1  
L1  
C1



(FILE: MIDP68.SON)

## MODAL EXTRACTION DATA

N	EIGENVALUE ( OMEGA**2 )	NATURAL FREQUENCY	GENERALIZED WEIGHT	--- MODAL WEIGHTS --- (GEN. WGT. * PARTICIPATION FACTORS**2)		
				X1	X2	X3
1	4459.18	10.628	0.135507E+07	4358.76701	1860055.49543	189.00291
2	4807.69	11.035	0.210487E+07	1999375.84662	5376.80820	12186.81239
3	6193.04	12.525	0.137700E+07	28328.57534	2247.52966	1872226.89463
4	6238.85	12.571	601482.	4663.33148	57465.55794	33739.01190
5	8548.33	14.715	567298.	60085.97975	109.91963	118105.77078
6	9291.49	15.341	644515.	64.39038	169997.81238	784.54213
7	16025.8	20.148	285949.	222.52356	1466.76534	58205.46938
8	19433.8	22.187	230207.	14.75950	403.35142	43.69279
9	42646.2	32.867	92202.4	20.48219	15.55806	1032.34164
10	50029.6	35.599	135800.	933.91178	0.66274	386.05307
11	75145.3	43.629	38730.8	0.91984	902.37194	9.11593
12	84733.8	46.329	69462.9	16.64298	0.16337	13.31397
13	86347.5	46.768	43201.8	3.09391	8.55080	369.72572
14	87505.2	47.080	102171.	3.40502	1.41718	738.14920
15	100331.	50.412	74266.0	00.00000	0.07764	21.94959
16	129350.	57.240	148336.	0.69513	0.00001	18.81449
17	136648.	58.833	108536.	9.02354	0.73774	62.45549
18	185990.	68.638	142903.	0.02308	22.69289	6.03206
19	196471.	70.545	132471.	5.19820	5.01301	0.00448
20	239500.	77.888	537731.	8.94216	0.13075	0.01461
21	268472.	82.465	187390.	0.01300	3.45508	0.22814
22	278542.	83.997	84631.2	8.55708	6.01266	10.47014
23	287840.	85.388	240815.	2.52557	4.97421	0.06988
24	305992.	88.039	108701.	9.11625	2.99393	2.18053
25	399219.	100.560	89938.1	0.35222	0.03129	0.00721
26	529608.	115.824	69907.5	0.01481	6.07347	0.02754
27	548972.	117.922	253761.	1.61889	0.21776	0.00008
28	578303.	121.031	156316.	0.04360	28.85755	0.51310
29	586982.	121.936	99509.3	7.20414	0.00190	0.00053
30	641767.	127.500	73175.0	0.06798	11.29264	0.35046
31	702769.	133.422	182749.	0.01349	0.42626	0.00044
32	744801.	137.354	519858.	0.00948	0.11087	0.00007
33	760097.	138.757	146184.	0.25252	2.28188	0.23592
34	782715.	140.806	121823.	1.97853	0.01732	0.02498
35	796265.	142.020	614464.	0.00057	0.00026	0.00016
36	860357.	147.625	252199.	1.75155	0.00111	0.00000



NODE,	56,	203.7,	369.,	0.
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NODE,	61,	244.3,	66.,	0.
NODE,	62,	244.3,	107.5,	0.
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NODE,	66,	244.3,	271.,	0.
NODE,	67,	244.3,	320.,	0.
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NODE,	103,	366.1,	320.,	0.
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NODE,	110,	406.7,	107.5,	0.
NODE,	111,	406.7,	149.,	0.
NODE,	112,	406.7,	189.,	0.
NODE,	113,	406.7,	230.,	0.
NODE,	114,	406.7,	271.,	0.
NODE,	115,	406.7,	320.,	0.
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NODE,	117,	406.7,	395.5,	0.
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NODE,	126,	447.3,	271.,	0.
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NODE,	137,	487.9,	230.,	0.
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NODE,	159,	583.5,	149.,	0.
NODE,	160,	583.5,	189.,	0.
NODE,	161,	583.5,	230.,	0.
NODE,	162,	583.5,	271.,	0.
NODE,	163,	583.5,	320.,	0.
NODE,	164,	583.5,	369.,	0.
NODE,	165,	583.5,	395.5,	0.
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NODE,	170,	638.5,	107.5,	0.
NODE,	171,	638.5,	149.,	0.
NODE,	172,	638.5,	189.,	0.
NODE,	173,	638.5,	230.,	0.
NODE,	174,	638.5,	271.,	0.
NODE,	175,	638.5,	320.,	0.
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NODE,	182,	693.5,	107.5,	0.
NODE,	183,	693.5,	149.,	0.
NODE,	184,	693.5,	189.,	0.
NODE,	185,	693.5,	230.,	0.



NODE,	186,	693.5,	271.,	0.
NODE,	187,	693.5,	320.,	0.
NODE,	188,	693.5,	369.,	0.
NODE,	189,	693.5,	395.5,	0.
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NODE,	194,	748.5,	107.5,	0.
NODE,	195,	748.5,	149.,	0.
NODE,	196,	748.5,	189.,	0.
NODE,	197,	748.5,	230.,	0.
NODE,	198,	748.5,	271.,	0.
NODE,	199,	748.5,	320.,	0.
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NODE,	206,	803.5,	107.5,	0.
NODE,	207,	803.5,	149.,	0.
NODE,	208,	803.5,	189.,	0.
NODE,	209,	803.5,	230.,	0.
NODE,	210,	803.5,	271.,	0.
NODE,	211,	803.5,	320.,	0.
NODE,	212,	803.5,	369.,	0.
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NODE,	221,	843.5,	395.5,	0.
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NODE,	225,	883.5,	66.,	0.
NODE,	226,	883.5,	107.5,	0.
NODE,	227,	883.5,	149.,	0.
NODE,	228,	883.5,	369.,	0.
NODE,	229,	883.5,	395.5,	0.
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NODE,	232,	926.,	33.,	0.
NODE,	233,	926.,	66.,	0.
NODE,	234,	926.,	107.5,	0.
NODE,	235,	926.,	149.,	0.
NODE,	236,	926.,	369.,	0.
NODE,	237,	926.,	395.5,	0.
NODE,	238,	926.,	422.,	0.
NODE,	239,	0.,	66.,	-68.
NODE,	240,	0.,	107.5,	-68.
NODE,	241,	0.,	149.,	-68.
NODE,	242,	0.,	369.,	-68.
NODE,	243,	0.,	395.5,	-68.
NODE,	244,	0.,	422.,	-68.
NODE,	245,	39.,	0.,	-68.
NODE,	246,	39.,	33.,	-68.
NODE,	247,	39.,	66.,	-68.
NODE,	248,	39.,	107.5,	-68.
NODE,	249,	39.,	149.,	-68.
NODE,	250,	39.,	369.,	-68.

NODE,	251,	39.,	395.5,	-68.
NODE,	252,	39.,	422.,	-68.
NODE,	253,	80.75,	0.,	-68.
NODE,	254,	80.75,	33.,	-68.
NODE,	255,	80.75,	66.,	-68.
NODE,	256,	80.75,	107.5,	-68.
NODE,	257,	80.75,	149.,	-68.
NODE,	258,	80.75,	369.,	-68.
NODE,	259,	80.75,	395.5,	-68.
NODE,	260,	80.75,	422.,	-68.
NODE,	261,	122.5,	0.,	-68.
NODE,	262,	122.5,	33.,	-68.
NODE,	263,	122.5,	66.,	-68.
NODE,	264,	122.5,	107.5,	-68.
NODE,	265,	122.5,	149.,	-68.
NODE,	266,	122.5,	189.,	-68.
NODE,	267,	122.5,	230.,	-68.
NODE,	268,	122.5,	271.,	-68.
NODE,	269,	122.5,	320.,	-68.
NODE,	270,	122.5,	369.,	-68.
NODE,	271,	122.5,	395.5,	-68.
NODE,	272,	122.5,	422.,	-68.
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NODE,	274,	163.1,	33.,	-68.
NODE,	275,	163.1,	66.,	-68.
NODE,	276,	163.1,	107.5,	-68.
NODE,	277,	163.1,	149.,	-68.
NODE,	278,	163.1,	189.,	-68.
NODE,	279,	163.1,	230.,	-68.
NODE,	280,	163.1,	271.,	-68.
NODE,	281,	163.1,	320.,	-68.
NODE,	282,	163.1,	369.,	-68.
NODE,	283,	163.1,	395.5,	-68.
NODE,	284,	163.1,	422.,	-68.
NODE,	285,	203.7,	0.,	-68.
NODE,	286,	203.7,	33.,	-68.
NODE,	287,	203.7,	66.,	-68.
NODE,	288,	203.7,	107.5,	-68.
NODE,	289,	203.7,	149.,	-68.
NODE,	290,	203.7,	189.,	-68.
NODE,	291,	203.7,	230.,	-68.
NODE,	292,	203.7,	271.,	-68.
NODE,	293,	203.7,	320.,	-68.
NODE,	294,	203.7,	369.,	-68.
NODE,	295,	203.7,	395.5,	-68.
NODE,	296,	203.7,	422.,	-68.
NODE,	297,	244.3,	0.,	-68.
NODE,	298,	244.3,	33.,	-68.
NODE,	299,	244.3,	66.,	-68.
NODE,	300,	244.3,	107.5,	-68.
NODE,	301,	244.3,	149.,	-68.
NODE,	302,	244.3,	189.,	-68.
NODE,	303,	244.3,	230.,	-68.
NODE,	304,	244.3,	271.,	-68.
NODE,	305,	244.3,	320.,	-68.
NODE,	306,	244.3,	369.,	-68.
NODE,	307,	244.3,	395.5,	-68.
NODE,	308,	244.3,	422.,	-68.
NODE,	309,	284.9,	0.,	-68.
NODE,	310,	284.9,	33.,	-68.
NODE,	311,	284.9,	66.,	-68.
NODE,	312,	284.9,	107.5,	-68.
NODE,	313,	284.9,	149.,	-68.
NODE,	314,	284.9,	189.,	-68.
NODE,	315,	284.9,	230.,	-68.

NODE,	316,	284.9,	271.,	-68.
NODE,	317,	284.9,	320.,	-68.
NODE,	318,	284.9,	369.,	-68.
NODE,	319,	284.9,	395.5,	-68.
	320,	284.9,	422.,	-68.
	321,	325.5,	0.,	-68.
NODE,	322,	325.5,	33.,	-68.
NODE,	323,	325.5,	66.,	-68.
NODE,	324,	325.5,	107.5,	-68.
NODE,	325,	325.5,	149.,	-68.
NODE,	326,	325.5,	189.,	-68.
NODE,	327,	325.5,	230.,	-68.
NODE,	328,	325.5,	271.,	-68.
NODE,	329,	325.5,	320.,	-68.
NODE,	330,	325.5,	369.,	-68.
NODE,	331,	325.5,	395.5,	-68.
NODE,	332,	325.5,	422.,	-68.
NODE,	333,	366.1,	0.,	-68.
NODE,	334,	366.1,	33.,	-68.
NODE,	335,	366.1,	66.,	-68.
NODE,	336,	366.1,	107.5,	-68.
NODE,	337,	366.1,	149.,	-68.
NODE,	338,	366.1,	189.,	-68.
NODE,	339,	366.1,	230.,	-68.
NODE,	340,	366.1,	271.,	-68.
NODE,	341,	366.1,	320.,	-68.
NODE,	342,	366.1,	369.,	-68.
NODE,	343,	366.1,	395.5,	-68.
NODE,	344,	366.1,	422.,	-68.
NODE,	345,	406.7,	0.,	-68.
NODE,	346,	406.7,	33.,	-68.
NODE,	347,	406.7,	66.,	-68.
F	348,	406.7,	107.5,	-68.
A	349,	406.7,	149.,	-68.
NODE,	350,	406.7,	189.,	-68.
NODE,	351,	406.7,	230.,	-68.
NODE,	352,	406.7,	271.,	-68.
NODE,	353,	406.7,	320.,	-68.
NODE,	354,	406.7,	369.,	-68.
NODE,	355,	406.7,	395.5,	-68.
NODE,	356,	406.7,	422.,	-68.
NODE,	357,	447.3,	0.,	-68.
NODE,	358,	447.3,	33.,	-68.
NODE,	359,	447.3,	66.,	-68.
NODE,	360,	447.3,	107.5,	-68.
NODE,	361,	447.3,	149.,	-68.
NODE,	362,	447.3,	189.,	-68.
NODE,	363,	447.3,	230.,	-68.
NODE,	364,	447.3,	271.,	-68.
NODE,	365,	447.3,	320.,	-68.
NODE,	366,	447.3,	369.,	-68.
NODE,	367,	447.3,	395.5,	-68.
NODE,	368,	447.3,	422.,	-68.
NODE,	369,	487.9,	0.,	-68.
NODE,	370,	487.9,	33.,	-68.
NODE,	371,	487.9,	66.,	-68.
NODE,	372,	487.9,	107.5,	-68.
NODE,	373,	487.9,	149.,	-68.
NODE,	374,	487.9,	189.,	-68.
NODE,	375,	487.9,	230.,	-68.
	376,	487.9,	271.,	-68.
	377,	487.9,	320.,	-68.
NODE,	378,	487.9,	369.,	-68.
NODE,	379,	487.9,	395.5,	-68.
NODE,	380,	487.9,	422.,	-68.

NODE,	381,	528.5,	0.,	-68.
NODE,	382,	528.5,	33.,	-68.
NODE,	383,	528.5,	66.,	-68.
NODE,	384,	528.5,	107.5,	-68.
NODE,	385,	528.5,	149.,	-68.
NODE,	386,	528.5,	189.,	-68.
NODE,	387,	528.5,	230.,	-68.
NODE,	388,	528.5,	271.,	-68.
NODE,	389,	528.5,	320.,	-68.
NODE,	390,	528.5,	369.,	-68.
NODE,	391,	528.5,	395.5,	-68.
NODE,	392,	528.5,	422.,	-68.
NODE,	393,	583.5,	0.,	-68.
NODE,	394,	583.5,	33.,	-68.
NODE,	395,	583.5,	66.,	-68.
NODE,	396,	583.5,	107.5,	-68.
NODE,	397,	583.5,	149.,	-68.
NODE,	398,	583.5,	189.,	-68.
NODE,	399,	583.5,	230.,	-68.
NODE,	400,	583.5,	271.,	-68.
NODE,	401,	583.5,	320.,	-68.
NODE,	402,	583.5,	369.,	-68.
NODE,	403,	583.5,	395.5,	-68.
NODE,	404,	583.5,	422.,	-68.
NODE,	405,	638.5,	0.,	-68.
NODE,	406,	638.5,	33.,	-68.
NODE,	407,	638.5,	66.,	-68.
NODE,	408,	638.5,	107.5,	-68.
NODE,	409,	638.5,	149.,	-68.
NODE,	410,	638.5,	189.,	-68.
NODE,	411,	638.5,	230.,	-68.
NODE,	412,	638.5,	271.,	-68.
NODE,	413,	638.5,	320.,	-68.
NODE,	414,	638.5,	369.,	-68.
NODE,	415,	638.5,	395.5,	-68.
NODE,	416,	638.5,	422.,	-68.
NODE,	417,	693.5,	0.,	-68.
NODE,	418,	693.5,	33.,	-68.
NODE,	419,	693.5,	66.,	-68.
NODE,	420,	693.5,	107.5,	-68.
NODE,	421,	693.5,	149.,	-68.
NODE,	422,	693.5,	189.,	-68.
NODE,	423,	693.5,	230.,	-68.
NODE,	424,	693.5,	271.,	-68.
NODE,	425,	693.5,	320.,	-68.
NODE,	426,	693.5,	369.,	-68.
NODE,	427,	693.5,	395.5,	-68.
NODE,	428,	693.5,	422.,	-68.
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NODE,	430,	748.5,	33.,	-68.
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NODE,	432,	748.5,	107.5,	-68.
NODE,	433,	748.5,	149.,	-68.
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NODE,	438,	748.5,	369.,	-68.
NODE,	439,	748.5,	395.5,	-68.
NODE,	440,	748.5,	422.,	-68.
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NODE,	444,	803.5,	107.5,	-68.
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END

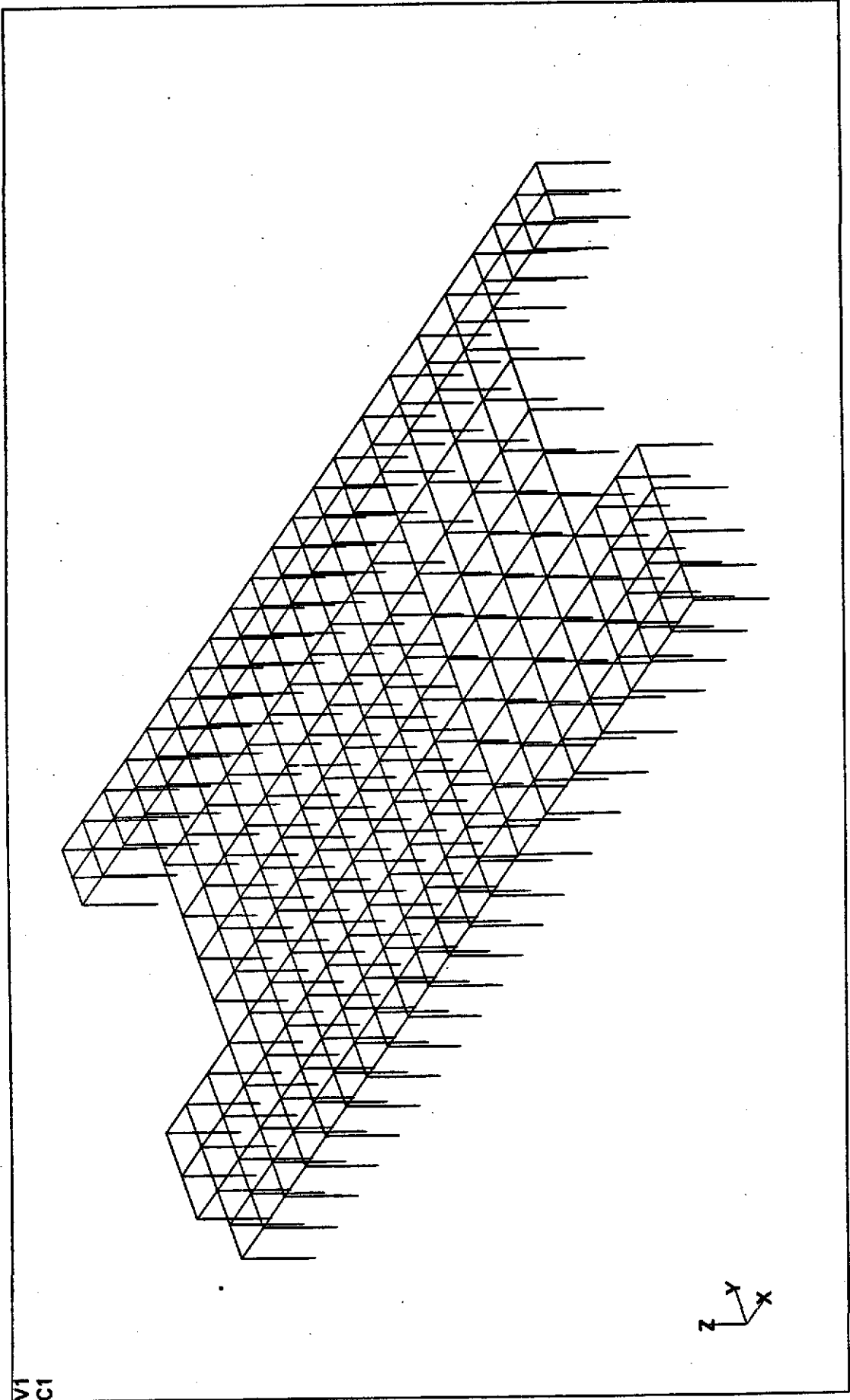
ENDGEOM  
\*\*\*\*\*X  
Written by : FEMAP X  
Version : 4.30 X  
From Model : X  
Date : Thu Aug 31 14:48:18 1995 X  
\*\*\*\*\*

PRESSURE LOAD 1 PSI  
STATIC -5 2  
QPRSN 239 437 1 CASE ONE 1.0 1.0 1.0  
END  
END CASE  
ALL DONE  
ENDMODEL



MID-PB1 MODEL T = 36 INCHES

(FILE: MIDPB36.SDN)



M1  
C1

(FILE: MID836.SON)

## MODAL EXTRACTION DATA

--- MODAL WEIGHTS ---  
 (GEN. WGT. \* PARTICIPATION FACTORS\*\*2)  
 X1 X2 X3

MODE NO	EIGENVALUE ( OMEGA**2 )	NATURAL FREQUENCY	GENERALIZED WEIGHT	X1	X2	X3
1	7787.83	14.045	735349.	1607.55694	1021618.53649	1462.69969
2	8554.72	14.721	0.120755E+07	1104172.41431	2903.94841	17939.60960
3	9738.19	15.706	476687.	38014.72729	4192.46639	870705.87833
4	10876.3	16.598	322469.	285.82015	50412.10221	518.27603
5	14128.6	18.918	531105.	17325.99198	855.18725	65988.64544
6	15627.7	19.896	278673.	185.84524	74296.47151	70677.83612
7	18993.3	21.934	194084.	286.81174	6469.67917	114545.14649
8	21140.4	23.141	183179.	458.39314	5820.02856	1612.20057
9	30079.5	27.603	99480.3	12.43766	247.52205	5811.52024
10	30992.8	28.019	96623.5	6463.95401	67.62893	900.05949
11	41302.7	32.345	187732.	7.69259	43.31182	15243.35351
12	46448.5	34.301	25105.0	216.17408	50.37843	883.37940
13	54260.1	37.073	55907.8	1.87507	1.88721	739.25038
14	56709.8	37.901	55968.5	90.60378	15.91027	2246.59317
15	70723.1	42.325	47937.7	5.81345	96.88727	1.45986
16	81146.0	45.337	26965.5	0.10078	1382.93535	20.01012
17	94912.0	49.032	14743.2	58.45640	17.94036	11.45023
18	95342.1	49.143	29775.0	168.81894	50.88698	252.49963
19	101925.	50.811	58525.9	130.80727	8.13759	21.40938
20	108167.	52.344	55308.9	44.44728	58.67273	33.16281
21	130431.	57.479	48704.4	8.62587	1.61222	0.43764
22	167514.	65.140	43306.7	0.12148	120.03408	0.07107
	176433.	66.851	92289.4	5.06468	355.91493	41.39711
	197890.	70.800	111918.	2.54264	243.24725	4.02862
25	199270.	71.046	58337.3	10.71938	185.36920	6.78152
26	218106.	74.328	66315.2	0.40135	25.41675	5.98364
27	237698.	77.595	297834.	22.02985	1.95647	0.08522
28	242249.	78.334	62846.1	44.69892	6.66548	0.02891
29	264634.	81.873	109541.	0.41812	0.77695	0.28665
30	271290.	82.897	85454.7	0.13966	19.48600	2.21989
31	284411.	84.878	105525.	1.90376	15.11405	0.01395
32	346108.	93.632	65884.4	6.05484	5.90287	0.48859
33	372647.	97.156	47095.7	0.38888	10.16222	0.97982
34	381216.	98.267	65081.0	0.34402	13.55947	1.98599
35	477444.	109.972	54184.1	2.63337	0.09768	0.04520
36	496627.	112.159	125958.	12.11222	2.79985	0.00007
37	543034.	117.283	100090.	11.44036	0.12077	0.14620
38	544477.	117.438	102281.	7.19444	0.03198	0.20874
39	586128.	121.847	36728.9	3.11645	0.16662	0.01888
40	670376.	130.310	126988.	0.69199	0.92264	0.51755
41	685847.	131.806	90116.4	0.07718	0.90760	0.00911
42	701619.	133.313	181927.	0.14628	3.19188	0.31263
43	709064.	134.018	41956.0	0.14573	27.68288	9.15601
44	743515.	137.235	68416.5	3.04780	0.20111	0.00675
45	776783.	140.272	299928.	0.06825	0.07947	0.00777
46	782429.	140.780	55647.7	1.07947	0.00515	0.50609
47	814060.	143.598	85509.5	4.26093	0.10282	0.00155
48	827597.	144.787	45161.2	1.09579	3.02728	0.13639
49	857814.	147.407	153622.	0.72168	0.00037	0.00990
50	862650.	147.821	55937.2	0.00059	8.34372	4.29378

START 386.4  
 \*\*\*\*\*X  
 Written by : FEMAP X  
 Version : 4.30 X  
 From Model : MIDPB36.SDN X  
 Date : Thu Aug 31 14:48:15 1995 X  
 \*\*\*\*\*

MATLG,1,MATL 1 - G,7367.,0.3,0.,0.,0.596  
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NODE, 6,	0.,	422.,	0.
NODE, 7,	39.,	0.,	0.
NODE, 8,	39.,	33.,	0.
NODE, 9,	39.,	66.,	0.
NODE, 10,	39.,	107.5,	0.
NODE, 11,	39.,	149.,	0.
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NODE, 14,	39.,	422.,	0.
NODE, 15,	80.75,	0.,	0.
NODE, 16,	80.75,	33.,	0.
NODE, 17,	80.75,	66.,	0.
NODE, 18,	80.75,	107.5,	0.
NODE, 19,	80.75,	149.,	0.
NODE, 20,	80.75,	369.,	0.
NODE, 21,	80.75,	395.5,	0.
NODE, 22,	80.75,	422.,	0.
NODE, 23,	122.5,	0.,	0.
NODE, 24,	122.5,	33.,	0.
NODE, 25,	122.5,	66.,	0.
NODE, 26,	122.5,	107.5,	0.
NODE, 27,	122.5,	149.,	0.
NODE, 28,	122.5,	189.,	0.
NODE, 29,	122.5,	230.,	0.
NODE, 30,	122.5,	271.,	0.
NODE, 31,	122.5,	320.,	0.
NODE, 32,	122.5,	369.,	0.
NODE, 33,	122.5,	395.5,	0.
NODE, 34,	122.5,	422.,	0.
NODE, 35,	163.1,	0.,	0.
NODE, 36,	163.1,	33.,	0.
NODE, 37,	163.1,	66.,	0.
NODE, 38,	163.1,	107.5,	0.
NODE, 39,	163.1,	149.,	0.
NODE, 40,	163.1,	189.,	0.
NODE, 41,	163.1,	230.,	0.
NODE, 42,	163.1,	271.,	0.
NODE, 43,	163.1,	320.,	0.
NODE, 44,	163.1,	369.,	0.
NODE, 45,	163.1,	395.5,	0.
NODE, 46,	163.1,	422.,	0.
NODE, 47,	203.7,	0.,	0.
NODE, 48,	203.7,	33.,	0.
NODE, 49,	203.7,	66.,	0.
NODE, 50,	203.7,	107.5,	0.
NODE, 51,	203.7,	149.,	0.
NODE, 52,	203.7,	189.,	0.
NODE, 53,	203.7,	230.,	0.
NODE, 54,	203.7,	271.,	0.
NODE, 55,	203.7,	320.,	0.

NODE,	56,	203.7,	369.,	0.
NODE,	57,	203.7,	395.5,	0.
NODE,	58,	203.7,	422.,	0.
NODE,	59,	244.3,	0.,	0.
NODE,	60,	244.3,	33.,	0.
NODE,	61,	244.3,	66.,	0.
NODE,	62,	244.3,	107.5,	0.
NODE,	63,	244.3,	149.,	0.
NODE,	64,	244.3,	189.,	0.
NODE,	65,	244.3,	230.,	0.
NODE,	66,	244.3,	271.,	0.
NODE,	67,	244.3,	320.,	0.
NODE,	68,	244.3,	369.,	0.
NODE,	69,	244.3,	395.5,	0.
NODE,	70,	244.3,	422.,	0.
NODE,	71,	284.9,	0.,	0.
NODE,	72,	284.9,	33.,	0.
NODE,	73,	284.9,	66.,	0.
NODE,	74,	284.9,	107.5,	0.
NODE,	75,	284.9,	149.,	0.
NODE,	76,	284.9,	189.,	0.
NODE,	77,	284.9,	230.,	0.
NODE,	78,	284.9,	271.,	0.
NODE,	79,	284.9,	320.,	0.
NODE,	80,	284.9,	369.,	0.
NODE,	81,	284.9,	395.5,	0.
NODE,	82,	284.9,	422.,	0.
NODE,	83,	325.5,	0.,	0.
NODE,	84,	325.5,	33.,	0.
NODE,	85,	325.5,	66.,	0.
NODE,	86,	325.5,	107.5,	0.
NODE,	87,	325.5,	149.,	0.
NODE,	88,	325.5,	189.,	0.
NODE,	89,	325.5,	230.,	0.
NODE,	90,	325.5,	271.,	0.
NODE,	91,	325.5,	320.,	0.
NODE,	92,	325.5,	369.,	0.
NODE,	93,	325.5,	395.5,	0.
NODE,	94,	325.5,	422.,	0.
NODE,	95,	366.1,	0.,	0.
NODE,	96,	366.1,	33.,	0.
NODE,	97,	366.1,	66.,	0.
NODE,	98,	366.1,	107.5,	0.
NODE,	99,	366.1,	149.,	0.
NODE,	100,	366.1,	189.,	0.
NODE,	101,	366.1,	230.,	0.
NODE,	102,	366.1,	271.,	0.
NODE,	103,	366.1,	320.,	0.
NODE,	104,	366.1,	369.,	0.
NODE,	105,	366.1,	395.5,	0.
NODE,	106,	366.1,	422.,	0.
NODE,	107,	406.7,	0.,	0.
NODE,	108,	406.7,	33.,	0.
NODE,	109,	406.7,	66.,	0.
NODE,	110,	406.7,	107.5,	0.
NODE,	111,	406.7,	149.,	0.
NODE,	112,	406.7,	189.,	0.
NODE,	113,	406.7,	230.,	0.
NODE,	114,	406.7,	271.,	0.
NODE,	115,	406.7,	320.,	0.
NODE,	116,	406.7,	369.,	0.
NODE,	117,	406.7,	395.5,	0.
NODE,	118,	406.7,	422.,	0.
NODE,	119,	447.3,	0.,	0.
NODE,	120,	447.3,	33.,	0.

NODE,	121,	447.3,	66.,	0.
NODE,	122,	447.3,	107.5,	0.
NODE,	123,	447.3,	149.,	0.
NODE,	124,	447.3,	189.,	0.
NODE,	125,	447.3,	230.,	0.
NODE,	126,	447.3,	271.,	0.
NODE,	127,	447.3,	320.,	0.
NODE,	128,	447.3,	369.,	0.
NODE,	129,	447.3,	395.5,	0.
NODE,	130,	447.3,	422.,	0.
NODE,	131,	487.9,	0.,	0.
NODE,	132,	487.9,	33.,	0.
NODE,	133,	487.9,	66.,	0.
NODE,	134,	487.9,	107.5,	0.
NODE,	135,	487.9,	149.,	0.
NODE,	136,	487.9,	189.,	0.
NODE,	137,	487.9,	230.,	0.
NODE,	138,	487.9,	271.,	0.
NODE,	139,	487.9,	320.,	0.
NODE,	140,	487.9,	369.,	0.
NODE,	141,	487.9,	395.5,	0.
NODE,	142,	487.9,	422.,	0.
NODE,	143,	528.5,	0.,	0.
NODE,	144,	528.5,	33.,	0.
NODE,	145,	528.5,	66.,	0.
NODE,	146,	528.5,	107.5,	0.
NODE,	147,	528.5,	149.,	0.
NODE,	148,	528.5,	189.,	0.
NODE,	149,	528.5,	230.,	0.
NODE,	150,	528.5,	271.,	0.
NODE,	151,	528.5,	320.,	0.
NODE,	152,	528.5,	369.,	0.
NODE,	153,	528.5,	395.5,	0.
NODE,	154,	528.5,	422.,	0.
NODE,	155,	583.5,	0.,	0.
NODE,	156,	583.5,	33.,	0.
NODE,	157,	583.5,	66.,	0.
NODE,	158,	583.5,	107.5,	0.
NODE,	159,	583.5,	149.,	0.
NODE,	160,	583.5,	189.,	0.
NODE,	161,	583.5,	230.,	0.
NODE,	162,	583.5,	271.,	0.
NODE,	163,	583.5,	320.,	0.
NODE,	164,	583.5,	369.,	0.
NODE,	165,	583.5,	395.5,	0.
NODE,	166,	583.5,	422.,	0.
NODE,	167,	638.5,	0.,	0.
NODE,	168,	638.5,	33.,	0.
NODE,	169,	638.5,	66.,	0.
NODE,	170,	638.5,	107.5,	0.
NODE,	171,	638.5,	149.,	0.
NODE,	172,	638.5,	189.,	0.
NODE,	173,	638.5,	230.,	0.
NODE,	174,	638.5,	271.,	0.
NODE,	175,	638.5,	320.,	0.
NODE,	176,	638.5,	369.,	0.
NODE,	177,	638.5,	395.5,	0.
NODE,	178,	638.5,	422.,	0.
NODE,	179,	693.5,	0.,	0.
NODE,	180,	693.5,	33.,	0.
NODE,	181,	693.5,	66.,	0.
NODE,	182,	693.5,	107.5,	0.
NODE,	183,	693.5,	149.,	0.
NODE,	184,	693.5,	189.,	0.
NODE,	185,	693.5,	230.,	0.

NODE,	186,	693.5,	271.,	0.
NODE,	187,	693.5,	320.,	0.
NODE,	188,	693.5,	369.,	0.
NODE,	189,	693.5,	395.5,	0.
NODE,	190,	693.5,	422.,	0.
NODE,	191,	748.5,	0.,	0.
NODE,	192,	748.5,	33.,	0.
NODE,	193,	748.5,	66.,	0.
NODE,	194,	748.5,	107.5,	0.
NODE,	195,	748.5,	149.,	0.
NODE,	196,	748.5,	189.,	0.
NODE,	197,	748.5,	230.,	0.
NODE,	198,	748.5,	271.,	0.
NODE,	199,	748.5,	320.,	0.
NODE,	200,	748.5,	369.,	0.
NODE,	201,	748.5,	395.5,	0.
NODE,	202,	748.5,	422.,	0.
NODE,	203,	803.5,	0.,	0.
NODE,	204,	803.5,	33.,	0.
NODE,	205,	803.5,	66.,	0.
NODE,	206,	803.5,	107.5,	0.
NODE,	207,	803.5,	149.,	0.
NODE,	208,	803.5,	189.,	0.
NODE,	209,	803.5,	230.,	0.
NODE,	210,	803.5,	271.,	0.
NODE,	211,	803.5,	320.,	0.
NODE,	212,	803.5,	369.,	0.
NODE,	213,	803.5,	395.5,	0.
NODE,	214,	803.5,	422.,	0.
NODE,	215,	843.5,	0.,	0.
NODE,	216,	843.5,	33.,	0.
NODE,	217,	843.5,	66.,	0.
NODE,	218,	843.5,	107.5,	0.
NODE,	219,	843.5,	149.,	0.
NODE,	220,	843.5,	369.,	0.
NODE,	221,	843.5,	395.5,	0.
NODE,	222,	843.5,	422.,	0.
NODE,	223,	883.5,	0.,	0.
NODE,	224,	883.5,	33.,	0.
NODE,	225,	883.5,	66.,	0.
NODE,	226,	883.5,	107.5,	0.
NODE,	227,	883.5,	149.,	0.
NODE,	228,	883.5,	369.,	0.
NODE,	229,	883.5,	395.5,	0.
NODE,	230,	883.5,	422.,	0.
NODE,	231,	926.,	0.,	0.
NODE,	232,	926.,	33.,	0.
NODE,	233,	926.,	66.,	0.
NODE,	234,	926.,	107.5,	0.
NODE,	235,	926.,	149.,	0.
NODE,	236,	926.,	369.,	0.
NODE,	237,	926.,	395.5,	0.
NODE,	238,	926.,	422.,	0.
NODE,	239,	0.,	66.,	-68.
NODE,	240,	0.,	107.5,	-68.
NODE,	241,	0.,	149.,	-68.
NODE,	242,	0.,	369.,	-68.
NODE,	243,	0.,	395.5,	-68.
NODE,	244,	0.,	422.,	-68.
NODE,	245,	39.,	0.,	-68.
NODE,	246,	39.,	33.,	-68.
NODE,	247,	39.,	66.,	-68.
NODE,	248,	39.,	107.5,	-68.
NODE,	249,	39.,	149.,	-68.
NODE,	250,	39.,	369.,	-68.

NODE,	251,	39.,	395.5,	-68.
NODE,	252,	39.,	422.,	-68.
NODE,	253,	80.75,	0.,	-68.
NODE,	254,	80.75,	33.,	-68.
NODE,	255,	80.75,	66.,	-68.
NODE,	256,	80.75,	107.5,	-68.
NODE,	257,	80.75,	149.,	-68.
NODE,	258,	80.75,	369.,	-68.
NODE,	259,	80.75,	395.5,	-68.
NODE,	260,	80.75,	422.,	-68.
NODE,	261,	122.5,	0.,	-68.
NODE,	262,	122.5,	33.,	-68.
NODE,	263,	122.5,	66.,	-68.
NODE,	264,	122.5,	107.5,	-68.
NODE,	265,	122.5,	149.,	-68.
NODE,	266,	122.5,	189.,	-68.
NODE,	267,	122.5,	230.,	-68.
NODE,	268,	122.5,	271.,	-68.
NODE,	269,	122.5,	320.,	-68.
NODE,	270,	122.5,	369.,	-68.
NODE,	271,	122.5,	395.5,	-68.
NODE,	272,	122.5,	422.,	-68.
NODE,	273,	163.1,	0.,	-68.
NODE,	274,	163.1,	33.,	-68.
NODE,	275,	163.1,	66.,	-68.
NODE,	276,	163.1,	107.5,	-68.
NODE,	277,	163.1,	149.,	-68.
NODE,	278,	163.1,	189.,	-68.
NODE,	279,	163.1,	230.,	-68.
NODE,	280,	163.1,	271.,	-68.
NODE,	281,	163.1,	320.,	-68.
NODE,	282,	163.1,	369.,	-68.
NODE,	283,	163.1,	395.5,	-68.
NODE,	284,	163.1,	422.,	-68.
NODE,	285,	203.7,	0.,	-68.
NODE,	286,	203.7,	33.,	-68.
NODE,	287,	203.7,	66.,	-68.
NODE,	288,	203.7,	107.5,	-68.
NODE,	289,	203.7,	149.,	-68.
NODE,	290,	203.7,	189.,	-68.
NODE,	291,	203.7,	230.,	-68.
NODE,	292,	203.7,	271.,	-68.
NODE,	293,	203.7,	320.,	-68.
NODE,	294,	203.7,	369.,	-68.
NODE,	295,	203.7,	395.5,	-68.
NODE,	296,	203.7,	422.,	-68.
NODE,	297,	244.3,	0.,	-68.
NODE,	298,	244.3,	33.,	-68.
NODE,	299,	244.3,	66.,	-68.
NODE,	300,	244.3,	107.5,	-68.
NODE,	301,	244.3,	149.,	-68.
NODE,	302,	244.3,	189.,	-68.
NODE,	303,	244.3,	230.,	-68.
NODE,	304,	244.3,	271.,	-68.
NODE,	305,	244.3,	320.,	-68.
NODE,	306,	244.3,	369.,	-68.
NODE,	307,	244.3,	395.5,	-68.
NODE,	308,	244.3,	422.,	-68.
NODE,	309,	284.9,	0.,	-68.
NODE,	310,	284.9,	33.,	-68.
NODE,	311,	284.9,	66.,	-68.
NODE,	312,	284.9,	107.5,	-68.
NODE,	313,	284.9,	149.,	-68.
NODE,	314,	284.9,	189.,	-68.
NODE,	315,	284.9,	230.,	-68.



NODE,	316,	284.9,	271.,	-68.
NODE,	317,	284.9,	320.,	-68.
NODE,	318,	284.9,	369.,	-68.
NODE,	319,	284.9,	395.5,	-68.
NODE,	320,	284.9,	422.,	-68.
NODE,	321,	325.5,	0.,	-68.
NODE,	322,	325.5,	33.,	-68.
NODE,	323,	325.5,	66.,	-68.
NODE,	324,	325.5,	107.5,	-68.
NODE,	325,	325.5,	149.,	-68.
NODE,	326,	325.5,	189.,	-68.
NODE,	327,	325.5,	230.,	-68.
NODE,	328,	325.5,	271.,	-68.
NODE,	329,	325.5,	320.,	-68.
NODE,	330,	325.5,	369.,	-68.
NODE,	331,	325.5,	395.5,	-68.
NODE,	332,	325.5,	422.,	-68.
NODE,	333,	366.1,	0.,	-68.
NODE,	334,	366.1,	33.,	-68.
NODE,	335,	366.1,	66.,	-68.
NODE,	336,	366.1,	107.5,	-68.
NODE,	337,	366.1,	149.,	-68.
NODE,	338,	366.1,	189.,	-68.
NODE,	339,	366.1,	230.,	-68.
NODE,	340,	366.1,	271.,	-68.
NODE,	341,	366.1,	320.,	-68.
NODE,	342,	366.1,	369.,	-68.
NODE,	343,	366.1,	395.5,	-68.
NODE,	344,	366.1,	422.,	-68.
NODE,	345,	406.7,	0.,	-68.
NODE,	346,	406.7,	33.,	-68.
NODE,	347,	406.7,	66.,	-68.
NODE,	348,	406.7,	107.5,	-68.
NODE,	349,	406.7,	149.,	-68.
NODE,	350,	406.7,	189.,	-68.
NODE,	351,	406.7,	230.,	-68.
NODE,	352,	406.7,	271.,	-68.
NODE,	353,	406.7,	320.,	-68.
NODE,	354,	406.7,	369.,	-68.
NODE,	355,	406.7,	395.5,	-68.
NODE,	356,	406.7,	422.,	-68.
NODE,	357,	447.3,	0.,	-68.
NODE,	358,	447.3,	33.,	-68.
NODE,	359,	447.3,	66.,	-68.
NODE,	360,	447.3,	107.5,	-68.
NODE,	361,	447.3,	149.,	-68.
NODE,	362,	447.3,	189.,	-68.
NODE,	363,	447.3,	230.,	-68.
NODE,	364,	447.3,	271.,	-68.
NODE,	365,	447.3,	320.,	-68.
NODE,	366,	447.3,	369.,	-68.
NODE,	367,	447.3,	395.5,	-68.
NODE,	368,	447.3,	422.,	-68.
NODE,	369,	487.9,	0.,	-68.
NODE,	370,	487.9,	33.,	-68.
NODE,	371,	487.9,	66.,	-68.
NODE,	372,	487.9,	107.5,	-68.
NODE,	373,	487.9,	149.,	-68.
NODE,	374,	487.9,	189.,	-68.
NODE,	375,	487.9,	230.,	-68.
NODE,	376,	487.9,	271.,	-68.
NODE,	377,	487.9,	320.,	-68.
NODE,	378,	487.9,	369.,	-68.
NODE,	379,	487.9,	395.5,	-68.
NODE,	380,	487.9,	422.,	-68.

NODE,	381,	528.5,	0.,	-68.
NODE,	382,	528.5,	33.,	-68.
NODE,	383,	528.5,	66.,	-68.
NODE,	384,	528.5,	107.5,	-68.
NODE,	385,	528.5,	149.,	-68.
NODE,	386,	528.5,	189.,	-68.
NODE,	387,	528.5,	230.,	-68.
NODE,	388,	528.5,	271.,	-68.
NODE,	389,	528.5,	320.,	-68.
NODE,	390,	528.5,	369.,	-68.
NODE,	391,	528.5,	395.5,	-68.
NODE,	392,	528.5,	422.,	-68.
NODE,	393,	583.5,	0.,	-68.
NODE,	394,	583.5,	33.,	-68.
NODE,	395,	583.5,	66.,	-68.
NODE,	396,	583.5,	107.5,	-68.
NODE,	397,	583.5,	149.,	-68.
NODE,	398,	583.5,	189.,	-68.
NODE,	399,	583.5,	230.,	-68.
NODE,	400,	583.5,	271.,	-68.
NODE,	401,	583.5,	320.,	-68.
NODE,	402,	583.5,	369.,	-68.
NODE,	403,	583.5,	395.5,	-68.
NODE,	404,	583.5,	422.,	-68.
NODE,	405,	638.5,	0.,	-68.
NODE,	406,	638.5,	33.,	-68.
NODE,	407,	638.5,	66.,	-68.
NODE,	408,	638.5,	107.5,	-68.
NODE,	409,	638.5,	149.,	-68.
NODE,	410,	638.5,	189.,	-68.
NODE,	411,	638.5,	230.,	-68.
NODE,	412,	638.5,	271.,	-68.
NODE,	413,	638.5,	320.,	-68.
NODE,	414,	638.5,	369.,	-68.
NODE,	415,	638.5,	395.5,	-68.
NODE,	416,	638.5,	422.,	-68.
NODE,	417,	693.5,	0.,	-68.
NODE,	418,	693.5,	33.,	-68.
NODE,	419,	693.5,	66.,	-68.
NODE,	420,	693.5,	107.5,	-68.
NODE,	421,	693.5,	149.,	-68.
NODE,	422,	693.5,	189.,	-68.
NODE,	423,	693.5,	230.,	-68.
NODE,	424,	693.5,	271.,	-68.
NODE,	425,	693.5,	320.,	-68.
NODE,	426,	693.5,	369.,	-68.
NODE,	427,	693.5,	395.5,	-68.
NODE,	428,	693.5,	422.,	-68.
NODE,	429,	748.5,	0.,	-68.
NODE,	430,	748.5,	33.,	-68.
NODE,	431,	748.5,	66.,	-68.
NODE,	432,	748.5,	107.5,	-68.
NODE,	433,	748.5,	149.,	-68.
NODE,	434,	748.5,	189.,	-68.
NODE,	435,	748.5,	230.,	-68.
NODE,	436,	748.5,	271.,	-68.
NODE,	437,	748.5,	320.,	-68.
NODE,	438,	748.5,	369.,	-68.
NODE,	439,	748.5,	395.5,	-68.
NODE,	440,	748.5,	422.,	-68.
NODE,	441,	803.5,	0.,	-68.
NODE,	442,	803.5,	33.,	-68.
NODE,	443,	803.5,	66.,	-68.
NODE,	444,	803.5,	107.5,	-68.
NODE,	445,	803.5,	149.,	-68.

NODE,	446,	803.5,	189.,	-68.
NODE,	447,	803.5,	230.,	-68.
NODE,	448,	803.5,	271.,	-68.
NODE,	449,	803.5,	320.,	-68.
NODE,	450,	803.5,	369.,	-68.
NODE,	451,	803.5,	395.5,	-68.
NODE,	452,	803.5,	422.,	-68.
NODE,	453,	843.5,	0.,	-68.
NODE,	454,	843.5,	33.,	-68.
NODE,	455,	843.5,	66.,	-68.
NODE,	456,	843.5,	107.5,	-68.
NODE,	457,	843.5,	149.,	-68.
NODE,	458,	843.5,	369.,	-68.
NODE,	459,	843.5,	395.5,	-68.
NODE,	460,	843.5,	422.,	-68.
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NODE,	463,	883.5,	66.,	-68.
NODE,	464,	883.5,	107.5,	-68.
NODE,	465,	883.5,	149.,	-68.
NODE,	466,	883.5,	369.,	-68.
NODE,	467,	883.5,	395.5,	-68.
NODE,	468,	883.5,	422.,	-68.
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NODE,	470,	926.,	33.,	-68.
NODE,	471,	926.,	66.,	-68.
NODE,	472,	926.,	107.5,	-68.
NODE,	473,	926.,	149.,	-68.
NODE,	474,	926.,	369.,	-68.
NODE,	475,	926.,	395.5,	-68.
NODE,	476,	926.,	422.,	-68.

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END

ENDGEOM \*\*\*\*\*X

Written by : FEMAP X

Version : 4.30 X

From Model : X

Date : Thu Aug 31 14:48:18 1995 X

\*\*\*\*\*

DYNAMIC 0 0 0 60 150. 0.

OPTION 0 1 0 0 66 0 00

OUTPUT 1 111 2

TAPE4G

TITLE1

TITLE2

TITLE3 WRITTEN BY FEMAP VERSION 4.30

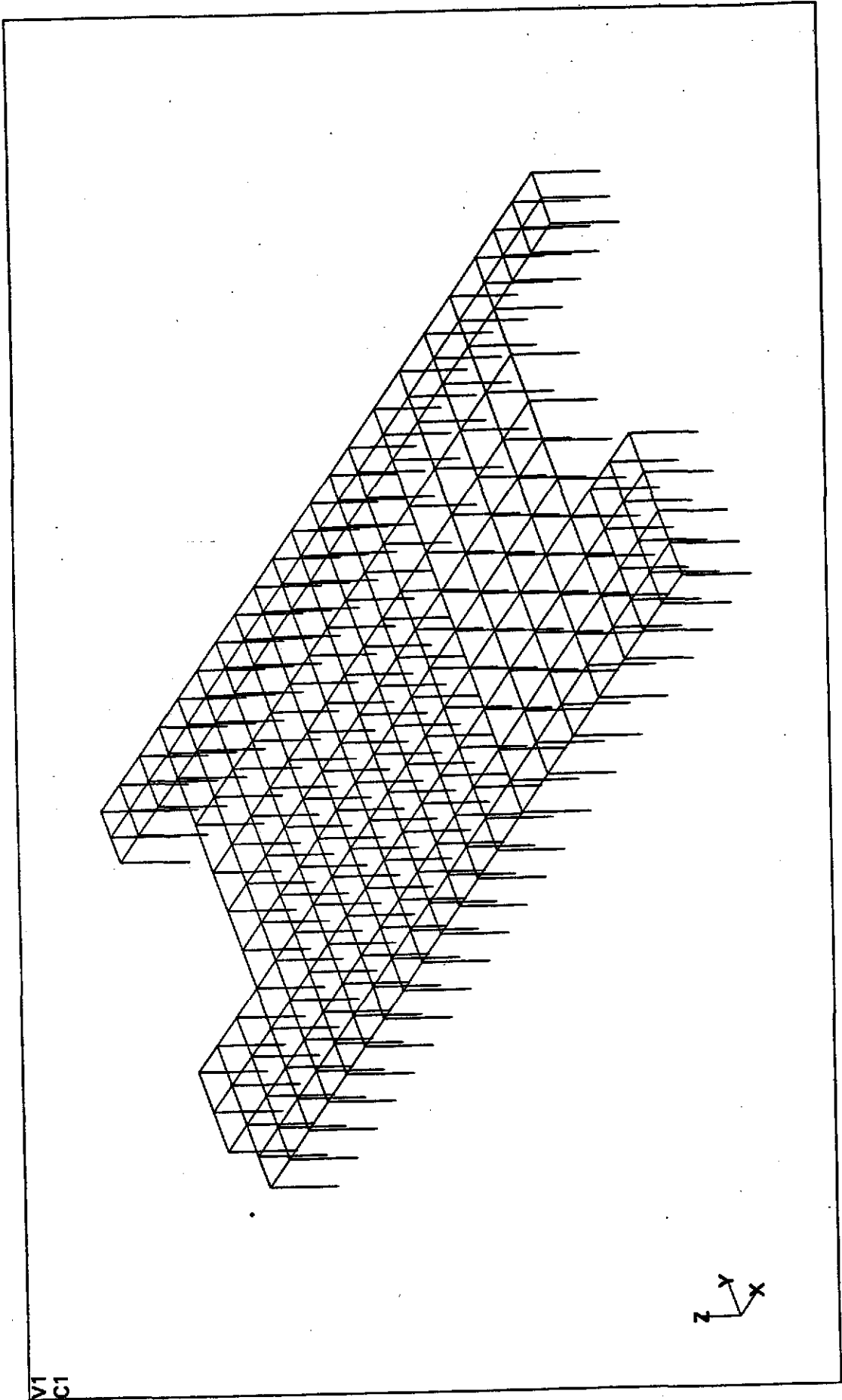
TITLE4

TITLE5 08/31/95

ENDMODEL

MID-PB1 MODEL T = 18 INCHES

(FILE: MIDPB18.SDN)



V1  
C1

(FILE: MIDPB18.SON)



MID-PB1 MODEL T=18 INCHES

--- MODAL WEIGHTS ---  
 (GEN. WGT. \* PARTICIPATION FACTORS\*\*2)  
 X1 X2 X3

MODE	EIGENVALUE ( OMEGA**2 ) or ---- Critical Buckling Load Scale Factor	NATURAL FREQUENCY	GENERALIZED WEIGHT	X1	X2	X3
1	11122.4	16.785	122783.	1493.28605	2142.87515	258724.37585
2	13247.3	18.318	393375.	63.28530	571360.26207	3051.94806
3	15120.2	19.570	600344.	633836.32901	142.45672	1116.84883
4	18626.4	21.721	175288.	530.23823	42067.66647	12.13224
5	21968.6	23.590	111814.	1525.73139	2054.76594	32800.30731
6	24363.8	24.842	164052.	594.75585	4340.35328	234329.58635
7	27137.1	26.218	118285.	165.90307	7568.09447	49464.59367
8	31360.7	28.185	192389.	181.26163	3745.88978	9.54292
9	33763.3	29.244	96058.9	745.21262	2312.10961	24.79712
10	36511.3	30.411	85167.6	4427.13520	405.09376	1145.14812
11	39978.9	31.823	52490.9	73.26490	21.75971	32620.29446
12	45176.7	33.828	71191.5	85.94108	102.62311	1331.99664
13	47965.1	34.856	38683.5	0.19464	217.76554	19809.26703
14	49720.2	35.488	66791.2	3.40872	60.61241	4803.82438
15	56016.7	37.669	38194.1	32.61894	1069.52769	1602.12722
16	64095.3	40.293	75195.2	257.63427	81.56931	216.57401
17	65060.9	40.596	45025.2	1958.62678	129.46993	727.04991
18	72490.9	42.851	22209.5	46.33518	1160.53699	2415.44387
19	78715.6	44.653	33374.7	1.26125	466.41433	262.70276
20	80958.1	45.285	30498.6	21.50295	1197.60491	1272.20775
21	85989.4	46.671	29818.5	53.38509	297.61666	197.62596
22	90797.3	47.958	26024.1	33.63279	23.65137	606.18240
23	98018.1	49.828	10867.7	26.90102	23.63105	25.23378
24	98503.7	49.951	18093.4	14.18012	3477.12181	175.24570
25	107711.	52.234	34498.7	34.22578	1480.26552	0.02781
26	109395.	52.640	22796.9	308.14273	5.06234	3.51972
27	111962.	53.254	19047.4	38.60918	146.29296	35.58570
28	126967.	56.711	28118.8	165.58774	16.72028	2.41015
29	134772.	58.428	21358.0	1.84450	44.14689	6.32591
30	144627.	60.526	35473.9	8.91387	111.29772	125.49223
31	160720.	63.805	21413.8	83.28893	0.52888	6.43531
32	177658.	67.083	30531.1	1.46078	12.65102	26.11120
33	200559.	71.276	69255.5	0.84657	31.93856	0.04971
34	201009.	71.356	50484.7	26.40511	2.02979	4.43667
35	208138.	72.610	24727.5	102.43515	0.58930	15.78444
36	229435.	76.234	29691.0	60.24082	0.00385	69.71373
37	231611.	76.595	173221.	47.99521	2.93610	42.26794
38	234619.	77.091	61812.9	18.79214	65.66020	197.84860
39	246924.	79.086	45623.5	37.75343	35.57852	1.15964
40	254673.	80.318	110722.	5.28348	0.01579	9.02598
41	259275.	81.040	52401.0	1.15375	11.01072	26.62661
42	276298.	83.658	68655.0	1.56636	52.74366	5.18505
43	278549.	83.998	40809.4	0.45946	10.83516	8.48853
44	302475.	87.532	38388.7	2.59436	30.82621	2.20904
45	308805.	88.443	44445.8	3.63037	58.63636	16.75602
46	341767.	93.043	28932.5	8.39075	3.52254	10.52280
47	371008.	96.942	39269.6	8.63428	3.26942	3.99818
48	375985.	97.590	45919.9	17.05721	0.75392	0.03791
49	379147.	98.000	86864.8	86.70353	20.80435	0.15806
50	388745.	99.232	17209.1	1.06127	16.49743	0.05006

51	428271.	104.155	39993.6	20.50821	50.62334	0.42175
52	436482.	105.149	46357.9	67.45530	1.99131	0.35112
53	453985.	107.236	18503.9	7.30734	356.95335	1.91752
54	468765.	108.968	20265.5	0.56213	18.36494	0.11067
55	475498.	109.748	28798.8	5.63861	47.85089	2.16847
56	485706.	110.919	18051.3	0.00084	45.90085	8.22299
57	523040.	115.103	11081.2	0.25321	62.37683	0.18283
58	538908.	116.836	45935.8	6.64545	41.70997	0.03967
59	562098.	119.324	18331.8	1.08533	11.35096	0.31299
60	573888.	120.568	24620.2	1.71462	26.99773	1.89196
61	621682.	125.489	28883.3	0.30712	0.70250	0.00125
62	626179.	125.942	98314.8	0.51258	2.38349	0.00479
63	643932.	127.714	33529.0	1.01407	3.29878	0.03486
64	649574.	128.273	21709.4	0.11843	44.95941	0.88127
65	654090.	128.718	30567.1	0.92270	1.27547	0.00666
66	682270.	131.461	35659.2	0.96555	0.94544	0.04002
67	709794.	134.087	53189.0	0.85507	0.10338	0.23904
68	720300.	135.076	25523.7	1.97325	0.25567	5.09421
69	725908.	135.600	28236.7	1.65001	0.10999	0.48853
70	745343.	137.404	112959.	0.16853	0.09134	0.00857

START 386.4 \*\*\*\*\*X  
 \*\*\*\*\*X  
 Written by : FEMAP X  
 Version : 4.30 X  
 From Model : MIDPB18.SDN X  
 Date : Thu Aug 31 14:48:15 1995 X  
 \*\*\*\*\*

MATLG,1,MATL 1 - G,7367.,0.3,0.,0.,0.980  
 MATLG,2,MATL 1 - G,3600001.,0.15,0.096453,0.,0.02

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NODE, 4,	0.,	369.,	0.	
NODE, 5,	0.,	395.5,	0.	
NODE, 6,	0.,	422.,	0.	
NODE, 7,	39.,	0.,	0.	
NODE, 8,	39.,	33.,	0.	
NODE, 9,	39.,	66.,	0.	
NODE, 10,	39.,	107.5,	0.	
NODE, 11,	39.,	149.,	0.	
NODE, 12,	39.,	369.,	0.	
NODE, 13,	39.,	395.5,	0.	
NODE, 14,	39.,	422.,	0.	
NODE, 15,	80.75,	0.,	0.	
NODE, 16,	80.75,	33.,	0.	
NODE, 17,	80.75,	66.,	0.	
NODE, 18,	80.75,	107.5,	0.	
NODE, 19,	80.75,	149.,	0.	
NODE, 20,	80.75,	369.,	0.	
NODE, 21,	80.75,	395.5,	0.	
NODE, 22,	80.75,	422.,	0.	
NODE, 23,	122.5,	0.,	0.	
NODE, 24,	122.5,	33.,	0.	
NODE, 25,	122.5,	66.,	0.	
NODE, 26,	122.5,	107.5,	0.	
NODE, 27,	122.5,	149.,	0.	
NODE, 28,	122.5,	189.,	0.	
NODE, 29,	122.5,	230.,	0.	
NODE, 30,	122.5,	271.,	0.	
NODE, 31,	122.5,	320.,	0.	
NODE, 32,	122.5,	369.,	0.	
NODE, 33,	122.5,	395.5,	0.	
NODE, 34,	122.5,	422.,	0.	
NODE, 35,	163.1,	0.,	0.	
NODE, 36,	163.1,	33.,	0.	
NODE, 37,	163.1,	66.,	0.	
NODE, 38,	163.1,	107.5,	0.	
NODE, 39,	163.1,	149.,	0.	
NODE, 40,	163.1,	189.,	0.	
NODE, 41,	163.1,	230.,	0.	
NODE, 42,	163.1,	271.,	0.	
NODE, 43,	163.1,	320.,	0.	
NODE, 44,	163.1,	369.,	0.	
NODE, 45,	163.1,	395.5,	0.	
NODE, 46,	163.1,	422.,	0.	
NODE, 47,	203.7,	0.,	0.	
NODE, 48,	203.7,	33.,	0.	
NODE, 49,	203.7,	66.,	0.	
NODE, 50,	203.7,	107.5,	0.	
NODE, 51,	203.7,	149.,	0.	
NODE, 52,	203.7,	189.,	0.	
NODE, 53,	203.7,	230.,	0.	
NODE, 54,	203.7,	271.,	0.	
NODE, 55,	203.7,	320.,	0.	

NODE,	56,	203.7,	369.,	0.
NODE,	57,	203.7,	395.5,	0.
NODE,	58,	203.7,	422.,	0.
NODE,	59,	244.3,	0.,	0.
NODE,	60,	244.3,	33.,	0.
NODE,	61,	244.3,	66.,	0.
NODE,	62,	244.3,	107.5,	0.
NODE,	63,	244.3,	149.,	0.
NODE,	64,	244.3,	189.,	0.
NODE,	65,	244.3,	230.,	0.
NODE,	66,	244.3,	271.,	0.
NODE,	67,	244.3,	320.,	0.
NODE,	68,	244.3,	369.,	0.
NODE,	69,	244.3,	395.5,	0.
NODE,	70,	244.3,	422.,	0.
NODE,	71,	284.9,	0.,	0.
NODE,	72,	284.9,	33.,	0.
NODE,	73,	284.9,	66.,	0.
NODE,	74,	284.9,	107.5,	0.
NODE,	75,	284.9,	149.,	0.
NODE,	76,	284.9,	189.,	0.
NODE,	77,	284.9,	230.,	0.
NODE,	78,	284.9,	271.,	0.
NODE,	79,	284.9,	320.,	0.
NODE,	80,	284.9,	369.,	0.
NODE,	81,	284.9,	395.5,	0.
NODE,	82,	284.9,	422.,	0.
NODE,	83,	325.5,	0.,	0.
NODE,	84,	325.5,	33.,	0.
NODE,	85,	325.5,	66.,	0.
NODE,	86,	325.5,	107.5,	0.
NODE,	87,	325.5,	149.,	0.
NODE,	88,	325.5,	189.,	0.
NODE,	89,	325.5,	230.,	0.
NODE,	90,	325.5,	271.,	0.
NODE,	91,	325.5,	320.,	0.
NODE,	92,	325.5,	369.,	0.
NODE,	93,	325.5,	395.5,	0.
NODE,	94,	325.5,	422.,	0.
NODE,	95,	366.1,	0.,	0.
NODE,	96,	366.1,	33.,	0.
NODE,	97,	366.1,	66.,	0.
NODE,	98,	366.1,	107.5,	0.
NODE,	99,	366.1,	149.,	0.
NODE,	100,	366.1,	189.,	0.
NODE,	101,	366.1,	230.,	0.
NODE,	102,	366.1,	271.,	0.
NODE,	103,	366.1,	320.,	0.
NODE,	104,	366.1,	369.,	0.
NODE,	105,	366.1,	395.5,	0.
NODE,	106,	366.1,	422.,	0.
NODE,	107,	406.7,	0.,	0.
NODE,	108,	406.7,	33.,	0.
NODE,	109,	406.7,	66.,	0.
NODE,	110,	406.7,	107.5,	0.
NODE,	111,	406.7,	149.,	0.
NODE,	112,	406.7,	189.,	0.
NODE,	113,	406.7,	230.,	0.
NODE,	114,	406.7,	271.,	0.
NODE,	115,	406.7,	320.,	0.
NODE,	116,	406.7,	369.,	0.
NODE,	117,	406.7,	395.5,	0.
NODE,	118,	406.7,	422.,	0.
NODE,	119,	447.3,	0.,	0.
NODE,	120,	447.3,	33.,	0.

NODE,	121,	447.3,	66.,	0.
NODE,	122,	447.3,	107.5,	0.
NODE,	123,	447.3,	149.,	0.
NODE,	124,	447.3,	189.,	0.
NODE,	125,	447.3,	230.,	0.
NODE,	126,	447.3,	271.,	0.
NODE,	127,	447.3,	320.,	0.
NODE,	128,	447.3,	369.,	0.
NODE,	129,	447.3,	395.5,	0.
NODE,	130,	447.3,	422.,	0.
NODE,	131,	487.9,	0.,	0.
NODE,	132,	487.9,	33.,	0.
NODE,	133,	487.9,	66.,	0.
NODE,	134,	487.9,	107.5,	0.
NODE,	135,	487.9,	149.,	0.
NODE,	136,	487.9,	189.,	0.
NODE,	137,	487.9,	230.,	0.
NODE,	138,	487.9,	271.,	0.
NODE,	139,	487.9,	320.,	0.
NODE,	140,	487.9,	369.,	0.
NODE,	141,	487.9,	395.5,	0.
NODE,	142,	487.9,	422.,	0.
NODE,	143,	528.5,	0.,	0.
NODE,	144,	528.5,	33.,	0.
NODE,	145,	528.5,	66.,	0.
NODE,	146,	528.5,	107.5,	0.
NODE,	147,	528.5,	149.,	0.
NODE,	148,	528.5,	189.,	0.
NODE,	149,	528.5,	230.,	0.
NODE,	150,	528.5,	271.,	0.
NODE,	151,	528.5,	320.,	0.
NODE,	152,	528.5,	369.,	0.
NODE,	153,	528.5,	395.5,	0.
NODE,	154,	528.5,	422.,	0.
NODE,	155,	583.5,	0.,	0.
NODE,	156,	583.5,	33.,	0.
NODE,	157,	583.5,	66.,	0.
NODE,	158,	583.5,	107.5,	0.
NODE,	159,	583.5,	149.,	0.
NODE,	160,	583.5,	189.,	0.
NODE,	161,	583.5,	230.,	0.
NODE,	162,	583.5,	271.,	0.
NODE,	163,	583.5,	320.,	0.
NODE,	164,	583.5,	369.,	0.
NODE,	165,	583.5,	395.5,	0.
NODE,	166,	583.5,	422.,	0.
NODE,	167,	638.5,	0.,	0.
NODE,	168,	638.5,	33.,	0.
NODE,	169,	638.5,	66.,	0.
NODE,	170,	638.5,	107.5,	0.
NODE,	171,	638.5,	149.,	0.
NODE,	172,	638.5,	189.,	0.
NODE,	173,	638.5,	230.,	0.
NODE,	174,	638.5,	271.,	0.
NODE,	175,	638.5,	320.,	0.
NODE,	176,	638.5,	369.,	0.
NODE,	177,	638.5,	395.5,	0.
NODE,	178,	638.5,	422.,	0.
NODE,	179,	693.5,	0.,	0.
NODE,	180,	693.5,	33.,	0.
NODE,	181,	693.5,	66.,	0.
NODE,	182,	693.5,	107.5,	0.
NODE,	183,	693.5,	149.,	0.
NODE,	184,	693.5,	189.,	0.
NODE,	185,	693.5,	230.,	0.

NODE,	186,	693.5,	271.,	0.
NODE,	187,	693.5,	320.,	0.
NODE,	188,	693.5,	369.,	0.
NODE,	189,	693.5,	395.5,	0.
NODE,	190,	693.5,	422.,	0.
NODE,	191,	748.5,	0.,	0.
NODE,	192,	748.5,	33.,	0.
NODE,	193,	748.5,	66.,	0.
NODE,	194,	748.5,	107.5,	0.
NODE,	195,	748.5,	149.,	0.
NODE,	196,	748.5,	189.,	0.
NODE,	197,	748.5,	230.,	0.
NODE,	198,	748.5,	271.,	0.
NODE,	199,	748.5,	320.,	0.
NODE,	200,	748.5,	369.,	0.
NODE,	201,	748.5,	395.5,	0.
NODE,	202,	748.5,	422.,	0.
NODE,	203,	803.5,	0.,	0.
NODE,	204,	803.5,	33.,	0.
NODE,	205,	803.5,	66.,	0.
NODE,	206,	803.5,	107.5,	0.
NODE,	207,	803.5,	149.,	0.
NODE,	208,	803.5,	189.,	0.
NODE,	209,	803.5,	230.,	0.
NODE,	210,	803.5,	271.,	0.
NODE,	211,	803.5,	320.,	0.
NODE,	212,	803.5,	369.,	0.
NODE,	213,	803.5,	395.5,	0.
NODE,	214,	803.5,	422.,	0.
NODE,	215,	843.5,	0.,	0.
NODE,	216,	843.5,	33.,	0.
NODE,	217,	843.5,	66.,	0.
NODE,	218,	843.5,	107.5,	0.
NODE,	219,	843.5,	149.,	0.
NODE,	220,	843.5,	369.,	0.
NODE,	221,	843.5,	395.5,	0.
NODE,	222,	843.5,	422.,	0.
NODE,	223,	883.5,	0.,	0.
NODE,	224,	883.5,	33.,	0.
NODE,	225,	883.5,	66.,	0.
NODE,	226,	883.5,	107.5,	0.
NODE,	227,	883.5,	149.,	0.
NODE,	228,	883.5,	369.,	0.
NODE,	229,	883.5,	395.5,	0.
NODE,	230,	883.5,	422.,	0.
NODE,	231,	926.,	0.,	0.
NODE,	232,	926.,	33.,	0.
NODE,	233,	926.,	66.,	0.
NODE,	234,	926.,	107.5,	0.
NODE,	235,	926.,	149.,	0.
NODE,	236,	926.,	369.,	0.
NODE,	237,	926.,	395.5,	0.
NODE,	238,	926.,	422.,	0.
NODE,	239,	0.,	66.,	-68.
NODE,	240,	0.,	107.5,	-68.
NODE,	241,	0.,	149.,	-68.
NODE,	242,	0.,	369.,	-68.
NODE,	243,	0.,	395.5,	-68.
NODE,	244,	0.,	422.,	-68.
NODE,	245,	39.,	0.,	-68.
NODE,	246,	39.,	33.,	-68.
NODE,	247,	39.,	66.,	-68.
NODE,	248,	39.,	107.5,	-68.
NODE,	249,	39.,	149.,	-68.
NODE,	250,	39.,	369.,	-68.

NODE,	251,	39.,	395.5,	-68.
NODE,	252,	39.,	422.,	-68.
NODE,	253,	80.75,	0.,	-68.
NODE,	254,	80.75,	33.,	-68.
NODE,	255,	80.75,	66.,	-68.
NODE,	256,	80.75,	107.5,	-68.
NODE,	257,	80.75,	149.,	-68.
NODE,	258,	80.75,	369.,	-68.
NODE,	259,	80.75,	395.5,	-68.
NODE,	260,	80.75,	422.,	-68.
NODE,	261,	122.5,	0.,	-68.
NODE,	262,	122.5,	33.,	-68.
NODE,	263,	122.5,	66.,	-68.
NODE,	264,	122.5,	107.5,	-68.
NODE,	265,	122.5,	149.,	-68.
NODE,	266,	122.5,	189.,	-68.
NODE,	267,	122.5,	230.,	-68.
NODE,	268,	122.5,	271.,	-68.
NODE,	269,	122.5,	320.,	-68.
NODE,	270,	122.5,	369.,	-68.
NODE,	271,	122.5,	395.5,	-68.
NODE,	272,	122.5,	422.,	-68.
NODE,	273,	163.1,	0.,	-68.
NODE,	274,	163.1,	33.,	-68.
NODE,	275,	163.1,	66.,	-68.
NODE,	276,	163.1,	107.5,	-68.
NODE,	277,	163.1,	149.,	-68.
NODE,	278,	163.1,	189.,	-68.
NODE,	279,	163.1,	230.,	-68.
NODE,	280,	163.1,	271.,	-68.
NODE,	281,	163.1,	320.,	-68.
NODE,	282,	163.1,	369.,	-68.
NODE,	283,	163.1,	395.5,	-68.
NODE,	284,	163.1,	422.,	-68.
NODE,	285,	203.7,	0.,	-68.
NODE,	286,	203.7,	33.,	-68.
NODE,	287,	203.7,	66.,	-68.
NODE,	288,	203.7,	107.5,	-68.
NODE,	289,	203.7,	149.,	-68.
NODE,	290,	203.7,	189.,	-68.
NODE,	291,	203.7,	230.,	-68.
NODE,	292,	203.7,	271.,	-68.
NODE,	293,	203.7,	320.,	-68.
NODE,	294,	203.7,	369.,	-68.
NODE,	295,	203.7,	395.5,	-68.
NODE,	296,	203.7,	422.,	-68.
NODE,	297,	244.3,	0.,	-68.
NODE,	298,	244.3,	33.,	-68.
NODE,	299,	244.3,	66.,	-68.
NODE,	300,	244.3,	107.5,	-68.
NODE,	301,	244.3,	149.,	-68.
NODE,	302,	244.3,	189.,	-68.
NODE,	303,	244.3,	230.,	-68.
NODE,	304,	244.3,	271.,	-68.
NODE,	305,	244.3,	320.,	-68.
NODE,	306,	244.3,	369.,	-68.
NODE,	307,	244.3,	395.5,	-68.
NODE,	308,	244.3,	422.,	-68.
NODE,	309,	284.9,	0.,	-68.
NODE,	310,	284.9,	33.,	-68.
NODE,	311,	284.9,	66.,	-68.
NODE,	312,	284.9,	107.5,	-68.
NODE,	313,	284.9,	149.,	-68.
NODE,	314,	284.9,	189.,	-68.
NODE,	315,	284.9,	230.,	-68.

NODE,	316,	284.9,	271.,	-68.
NODE,	317,	284.9,	320.,	-68.
NODE,	318,	284.9,	369.,	-68.
NODE,	319,	284.9,	395.5,	-68.
NODE,	320,	284.9,	422.,	-68.
NODE,	321,	325.5,	0.,	-68.
NODE,	322,	325.5,	33.,	-68.
NODE,	323,	325.5,	66.,	-68.
NODE,	324,	325.5,	107.5,	-68.
NODE,	325,	325.5,	149.,	-68.
NODE,	326,	325.5,	189.,	-68.
NODE,	327,	325.5,	230.,	-68.
NODE,	328,	325.5,	271.,	-68.
NODE,	329,	325.5,	320.,	-68.
NODE,	330,	325.5,	369.,	-68.
NODE,	331,	325.5,	395.5,	-68.
NODE,	332,	325.5,	422.,	-68.
NODE,	333,	366.1,	0.,	-68.
NODE,	334,	366.1,	33.,	-68.
NODE,	335,	366.1,	66.,	-68.
NODE,	336,	366.1,	107.5,	-68.
NODE,	337,	366.1,	149.,	-68.
NODE,	338,	366.1,	189.,	-68.
NODE,	339,	366.1,	230.,	-68.
NODE,	340,	366.1,	271.,	-68.
NODE,	341,	366.1,	320.,	-68.
NODE,	342,	366.1,	369.,	-68.
NODE,	343,	366.1,	395.5,	-68.
NODE,	344,	366.1,	422.,	-68.
NODE,	345,	406.7,	0.,	-68.
NODE,	346,	406.7,	33.,	-68.
NODE,	347,	406.7,	66.,	-68.
NODE,	348,	406.7,	107.5,	-68.
NODE,	349,	406.7,	149.,	-68.
NODE,	350,	406.7,	189.,	-68.
NODE,	351,	406.7,	230.,	-68.
NODE,	352,	406.7,	271.,	-68.
NODE,	353,	406.7,	320.,	-68.
NODE,	354,	406.7,	369.,	-68.
NODE,	355,	406.7,	395.5,	-68.
NODE,	356,	406.7,	422.,	-68.
NODE,	357,	447.3,	0.,	-68.
NODE,	358,	447.3,	33.,	-68.
NODE,	359,	447.3,	66.,	-68.
NODE,	360,	447.3,	107.5,	-68.
NODE,	361,	447.3,	149.,	-68.
NODE,	362,	447.3,	189.,	-68.
NODE,	363,	447.3,	230.,	-68.
NODE,	364,	447.3,	271.,	-68.
NODE,	365,	447.3,	320.,	-68.
NODE,	366,	447.3,	369.,	-68.
NODE,	367,	447.3,	395.5,	-68.
NODE,	368,	447.3,	422.,	-68.
NODE,	369,	487.9,	0.,	-68.
NODE,	370,	487.9,	33.,	-68.
NODE,	371,	487.9,	66.,	-68.
NODE,	372,	487.9,	107.5,	-68.
NODE,	373,	487.9,	149.,	-68.
NODE,	374,	487.9,	189.,	-68.
NODE,	375,	487.9,	230.,	-68.
NODE,	376,	487.9,	271.,	-68.
NODE,	377,	487.9,	320.,	-68.
NODE,	378,	487.9,	369.,	-68.
NODE,	379,	487.9,	395.5,	-68.
NODE,	380,	487.9,	422.,	-68.



NODE,	381,	528.5,	0.,	-68.
NODE,	382,	528.5,	33.,	-68.
NODE,	383,	528.5,	66.,	-68.
NODE,	384,	528.5,	107.5,	-68.
NODE,	385,	528.5,	149.,	-68.
NODE,	386,	528.5,	189.,	-68.
NODE,	387,	528.5,	230.,	-68.
NODE,	388,	528.5,	271.,	-68.
NODE,	389,	528.5,	320.,	-68.
NODE,	390,	528.5,	369.,	-68.
NODE,	391,	528.5,	395.5,	-68.
NODE,	392,	528.5,	422.,	-68.
NODE,	393,	583.5,	0.,	-68.
NODE,	394,	583.5,	33.,	-68.
NODE,	395,	583.5,	66.,	-68.
NODE,	396,	583.5,	107.5,	-68.
NODE,	397,	583.5,	149.,	-68.
NODE,	398,	583.5,	189.,	-68.
NODE,	399,	583.5,	230.,	-68.
NODE,	400,	583.5,	271.,	-68.
NODE,	401,	583.5,	320.,	-68.
NODE,	402,	583.5,	369.,	-68.
NODE,	403,	583.5,	395.5,	-68.
NODE,	404,	583.5,	422.,	-68.
NODE,	405,	638.5,	0.,	-68.
NODE,	406,	638.5,	33.,	-68.
NODE,	407,	638.5,	66.,	-68.
NODE,	408,	638.5,	107.5,	-68.
NODE,	409,	638.5,	149.,	-68.
NODE,	410,	638.5,	189.,	-68.
NODE,	411,	638.5,	230.,	-68.
NODE,	412,	638.5,	271.,	-68.
NODE,	413,	638.5,	320.,	-68.
NODE,	414,	638.5,	369.,	-68.
NODE,	415,	638.5,	395.5,	-68.
NODE,	416,	638.5,	422.,	-68.
NODE,	417,	693.5,	0.,	-68.
NODE,	418,	693.5,	33.,	-68.
NODE,	419,	693.5,	66.,	-68.
NODE,	420,	693.5,	107.5,	-68.
NODE,	421,	693.5,	149.,	-68.
NODE,	422,	693.5,	189.,	-68.
NODE,	423,	693.5,	230.,	-68.
NODE,	424,	693.5,	271.,	-68.
NODE,	425,	693.5,	320.,	-68.
NODE,	426,	693.5,	369.,	-68.
NODE,	427,	693.5,	395.5,	-68.
NODE,	428,	693.5,	422.,	-68.
NODE,	429,	748.5,	0.,	-68.
NODE,	430,	748.5,	33.,	-68.
NODE,	431,	748.5,	66.,	-68.
NODE,	432,	748.5,	107.5,	-68.
NODE,	433,	748.5,	149.,	-68.
NODE,	434,	748.5,	189.,	-68.
NODE,	435,	748.5,	230.,	-68.
NODE,	436,	748.5,	271.,	-68.
NODE,	437,	748.5,	320.,	-68.
NODE,	438,	748.5,	369.,	-68.
NODE,	439,	748.5,	395.5,	-68.
NODE,	440,	748.5,	422.,	-68.
NODE,	441,	803.5,	0.,	-68.
NODE,	442,	803.5,	33.,	-68.
NODE,	443,	803.5,	66.,	-68.
NODE,	444,	803.5,	107.5,	-68.
NODE,	445,	803.5,	149.,	-68.

NODE,	446,	803.5,	189.,	-68.
NODE,	447,	803.5,	230.,	-68.
NODE,	448,	803.5,	271.,	-68.
NODE,	449,	803.5,	320.,	-68.
NODE,	450,	803.5,	369.,	-68.
NODE,	451,	803.5,	395.5,	-68.
NODE,	452,	803.5,	422.,	-68.
NODE,	453,	843.5,	0.,	-68.
NODE,	454,	843.5,	33.,	-68.
NODE,	455,	843.5,	66.,	-68.
NODE,	456,	843.5,	107.5,	-68.
NODE,	457,	843.5,	149.,	-68.
NODE,	458,	843.5,	369.,	-68.
NODE,	459,	843.5,	395.5,	-68.
NODE,	460,	843.5,	422.,	-68.
NODE,	461,	883.5,	0.,	-68.
NODE,	462,	883.5,	33.,	-68.
NODE,	463,	883.5,	66.,	-68.
NODE,	464,	883.5,	107.5,	-68.
NODE,	465,	883.5,	149.,	-68.
NODE,	466,	883.5,	369.,	-68.
NODE,	467,	883.5,	395.5,	-68.
NODE,	468,	883.5,	422.,	-68.
NODE,	469,	926.,	0.,	-68.
NODE,	470,	926.,	33.,	-68.
NODE,	471,	926.,	66.,	-68.
NODE,	472,	926.,	107.5,	-68.
NODE,	473,	926.,	149.,	-68.
NODE,	474,	926.,	369.,	-68.
NODE,	475,	926.,	395.5,	-68.
NODE,	476,	926.,	422.,	-68.

END  
R 239,,,123456  
1 240,,,123456  
RESTG,241,,,123456  
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C 379,,158,,159,,171,,170,,2,1,18.,  
QUA 380,,159,,160,,172,,171,,2,1,18.,  
QUADB,381,,160,,161,,173,,172,,2,1,18.,  
QUADB,382,,161,,162,,174,,173,,2,1,18.,  
QUADB,383,,162,,163,,175,,174,,2,1,18.,  
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END

ENDGEOM

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Version   : 4.30          X
From Model :              X
Date      : Thu Aug 31 14:48:18 1995 X
*****

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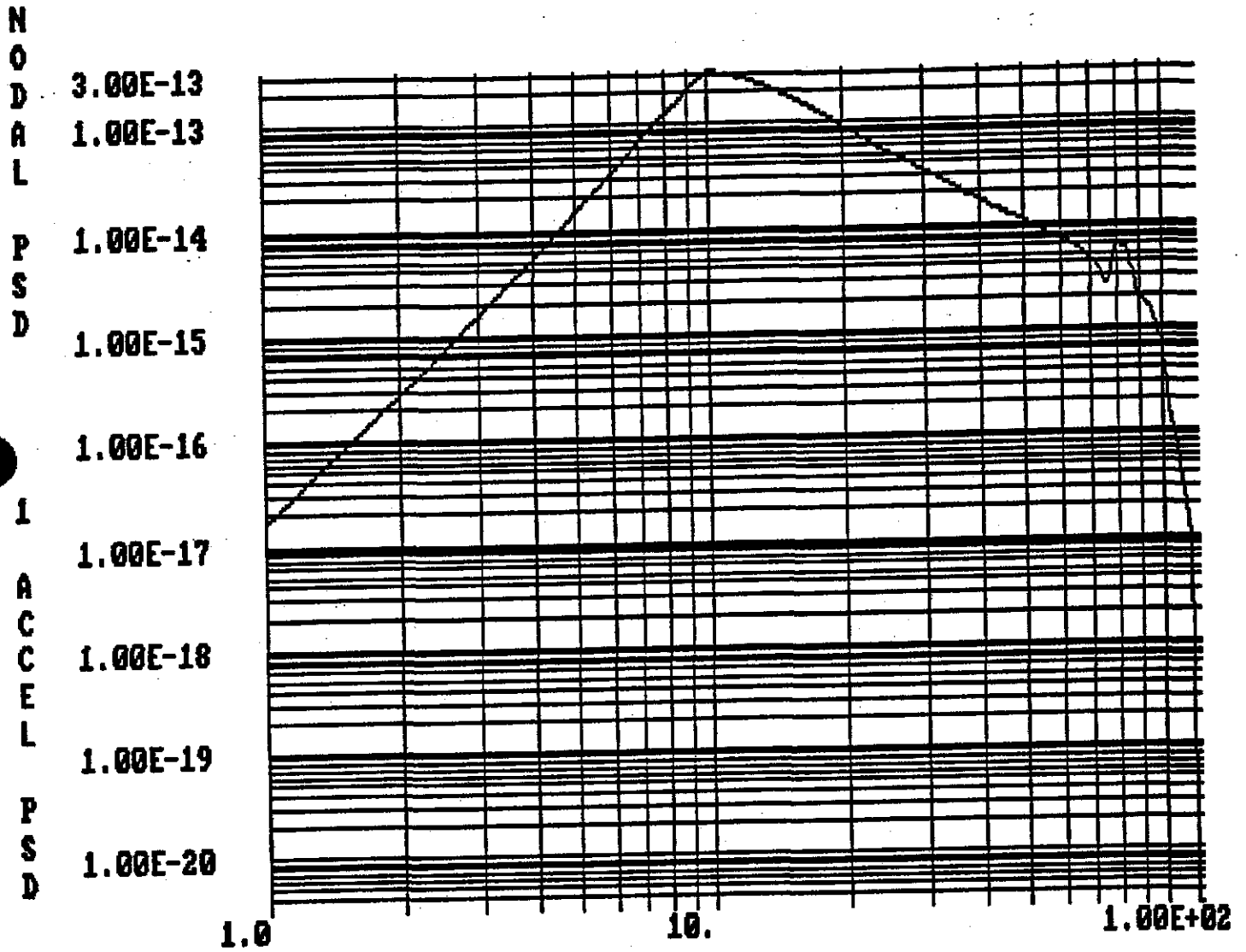
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TITLE1
TITLE2
TITLE3  WRITTEN BY FEMAP VERSION 4.30
TITLE4
TITLES  08/31/95
ENDMODEL

```

COR

```
68" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENERGY DAMPING)
START3          3          1          3.0          1.0          120.0
RMS
PRINT          1
          2          9          9
          2          13         13
END
MODES          1          6          99.0
          7          36          99.0
END
PSD          1          1
NODES          150          1          150          2          150          3
END
START PSD INPUT 1
  1 1 7 1 1
  6          1          1.0 1.618E-17          10.0 1.618E-13          100.0 1.618E-13
  6          -7          200.0 1.618E-13
ALL DONE
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# MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENER

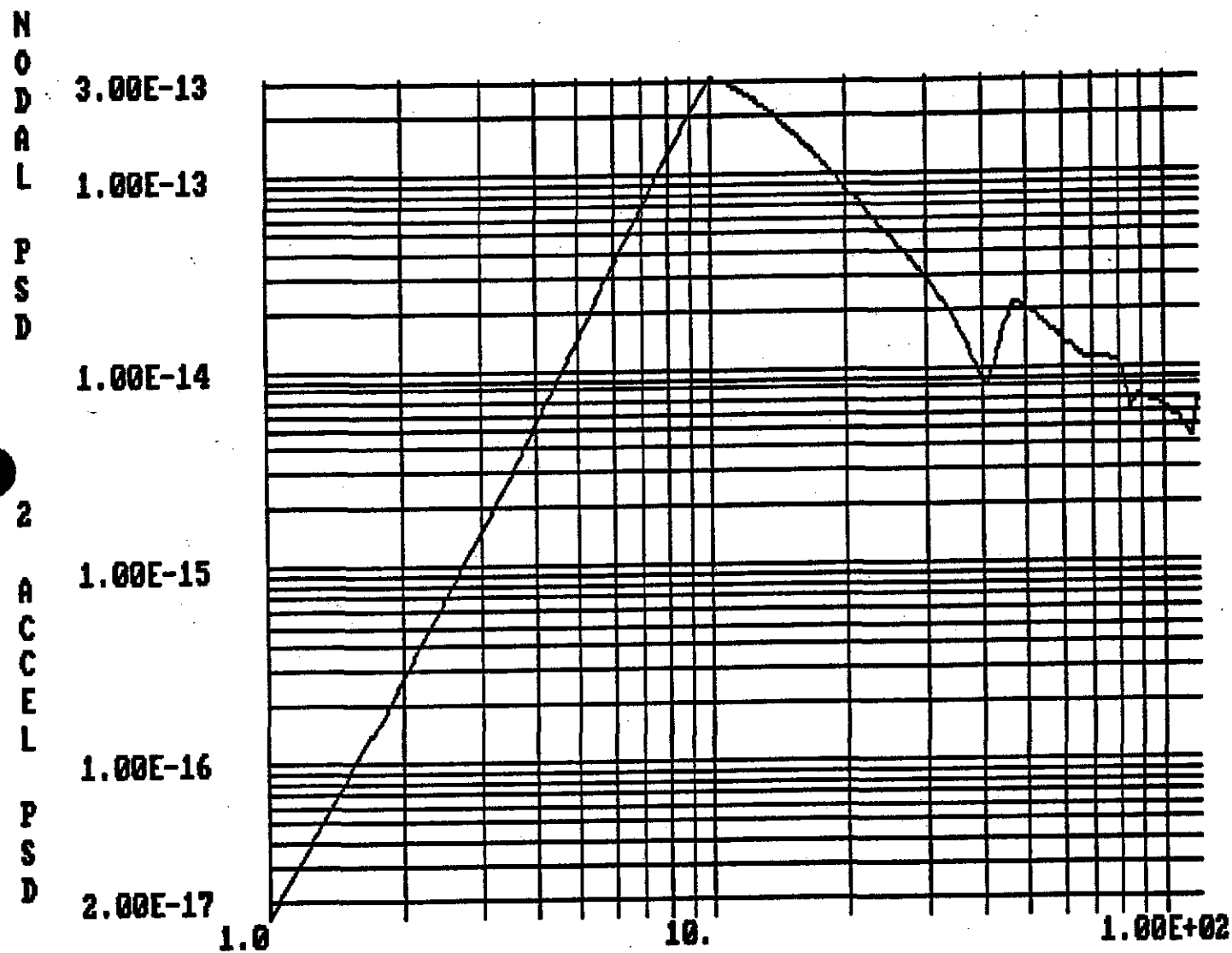


FREQUENCY (HZ)

PLOT NO =

1

# MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENER



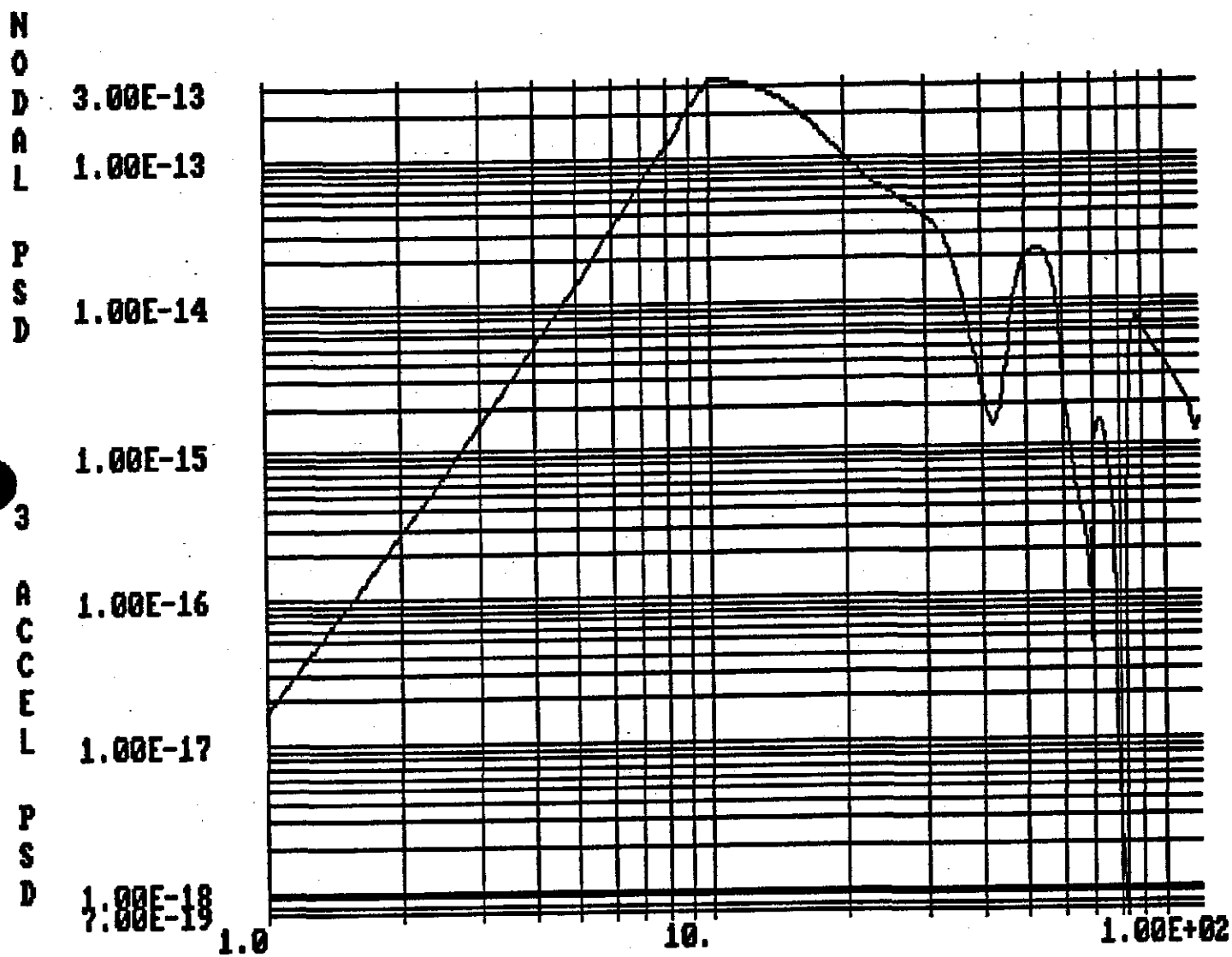
FREQUENCY (HZ)

PLOT NO =

2



# MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENER



FREQUENCY (HZ)

PLOT NO =

3

MID-PBI MODEL

MODAL EXTRACTION DATA

-MODAL WEIGHTS-

MODE EIGENVALUE NATURAL GENERALIZED MAX TRANSLATION (GEN. WGT. \* PARTICIPATION  
FACTORS\*\*2)

NO (OMEGA\*\*2) FREQUENCY PERIOD WEIGHT NODE-DOF VALUE X1 X2 X3

1	4459.18	10.628	0.0941	0.135507E+07	233-2	1.0000	4358.76701	1860055.49543	189.00291	12.0
2	4807.69	11.035	0.0906	0.210487E+07	167-1	1.0000	1999375.84662	5376.80820	12186.81239	12.0
3	6193.04	12.525	0.0798	0.137700E+07	173-3	1.0000	28328.57534	2247.52966	1872226.89463	12.0
4	6238.85	12.571	0.0795	601482.	2-2	1.0000	4663.33148	57465.55794	33739.01190	12.0
5	8548.33	14.715	0.0680	567298.	1-3	1.0000	60085.97975	109.91963	118105.77078	12.0
6	9291.49	15.341	0.0652	644515.	231-3	1.0000	64.39038	169997.81238	784.54213	12.0
7	16025.8	20.148	0.0496	285949.	235-3	1.0000	222.52356	1466.76534	58205.46938	12.0
8	19433.8	22.187	0.0451	230207.	238-3	1.0000	14.75950	403.35142	43.69279	12.0
9	42646.2	32.867	0.0304	92202.4	6-3	1.0000	20.48219	15.55806	1032.34164	12.0
10	50029.6	35.599	0.0281	135800.	238-3	1.0000	933.91178	0.66274	386.05307	12.0
11	75145.3	43.629	0.0229	38730.8	6-2	1.0000	0.91984	902.37194	9.11593	12.0
12	84733.8	46.329	0.0216	69462.9	6-3	1.0000	16.64298	0.16337	13.31397	12.0
13	86347.5	46.768	0.0214	43201.8	238-2	1.0000	3.09391	8.55080	369.72572	12.0
14	87505.2	47.080	0.0212	102171.	238-2	1.0000	3.40502	1.41718	738.14920	12.0
15	100331.	50.412	0.0198	74266.0	6-2	1.0000	00.00000	0.07764	21.94959	12.0
16	129350.	57.240	0.0175	148336.	4-3	1.0000	0.69513	0.00001	18.81449	12.0
17	136648.	58.833	0.0170	108536.	236-3	1.0000	9.02354	0.73774	62.45549	12.0
18	183990.	68.638	0.0146	142903.	3-3	1.0000	0.02308	22.69289	6.03206	12.0
19	196471.	70.545	0.0142	132471.	1-2	1.0000	5.19820	5.01301	0.00448	12.0
20	239500.	77.888	0.0128	537731.	235-1	1.0000	8.94216	0.13075	0.01461	12.0
21	268472.	82.465	0.0121	187390.	1-2	1.0000	0.01300	3.45508	0.22814	12.0
22	278542.	83.997	0.0119	84631.2	4-3	1.0000	8.55708	6.01266	10.47014	12.0
23	287840.	85.388	0.0117	240815.	4-1	1.0000	2.52557	4.97421	0.06988	12.0
24	305992.	88.030	0.0114	108701.	236-3	1.0000	9.11625	2.99393	2.18053	12.0
25	399219.	100.569	0.0099	89938.1	3-3	1.0000	0.35222	0.03129	0.00721	12.0
26	529608.	115.824	0.0086	69907.5	231-3	1.0000	0.01481	6.07347	0.02754	12.0
27	548972.	117.922	0.0085	253761.	4-1	1.0000	1.61889	0.21776	0.00008	12.0
28	578303.	121.031	0.0083	156316.	3-3	1.0000	0.04360	28.85755	0.51310	12.0
29	586982.	121.936	0.0082	99509.3	236-1	1.0000	7.20414	0.00190	0.00053	12.0
30	641767.	127.500	0.0078	73175.0	236-3	1.0000	0.06798	11.29264	0.35046	12.0
31	702769.	133.422	0.0075	182749.	4-1	1.0000	0.01349	0.42626	0.00044	11.2
32	744801.	137.354	0.0073	519858.	235-1	1.0000	0.00948	0.11087	0.00007	10.0
33	760097.	138.757	0.0072	146184.	235-3	1.0000	0.25252	2.28188	0.23592	9.0
34	782715.	140.806	0.0071	121823.	4-3	1.0000	1.97853	0.01732	0.02498	7.8
35	796265.	142.020	0.0070	614464.	214-2	1.0000	0.00057	0.00026	0.00016	8.2
36	860357.	147.625	0.0068	252199.	238-1	1.0000	1.75155	0.00111	0.00000	8.0

THE FOLLOWING ARE APPROX. EIGENVALUES FOR WHICH MODES WERE NOT REQUESTED.

37	918761.	152.553					6.8			
38	965150.	156.357					6.8			
39	0.104907E+07	163.013						4.2		
40	0.107974E+07	165.379						4.9		
41	0.121138E+07	175.170						2.2		

W=2098x10<sup>7</sup>

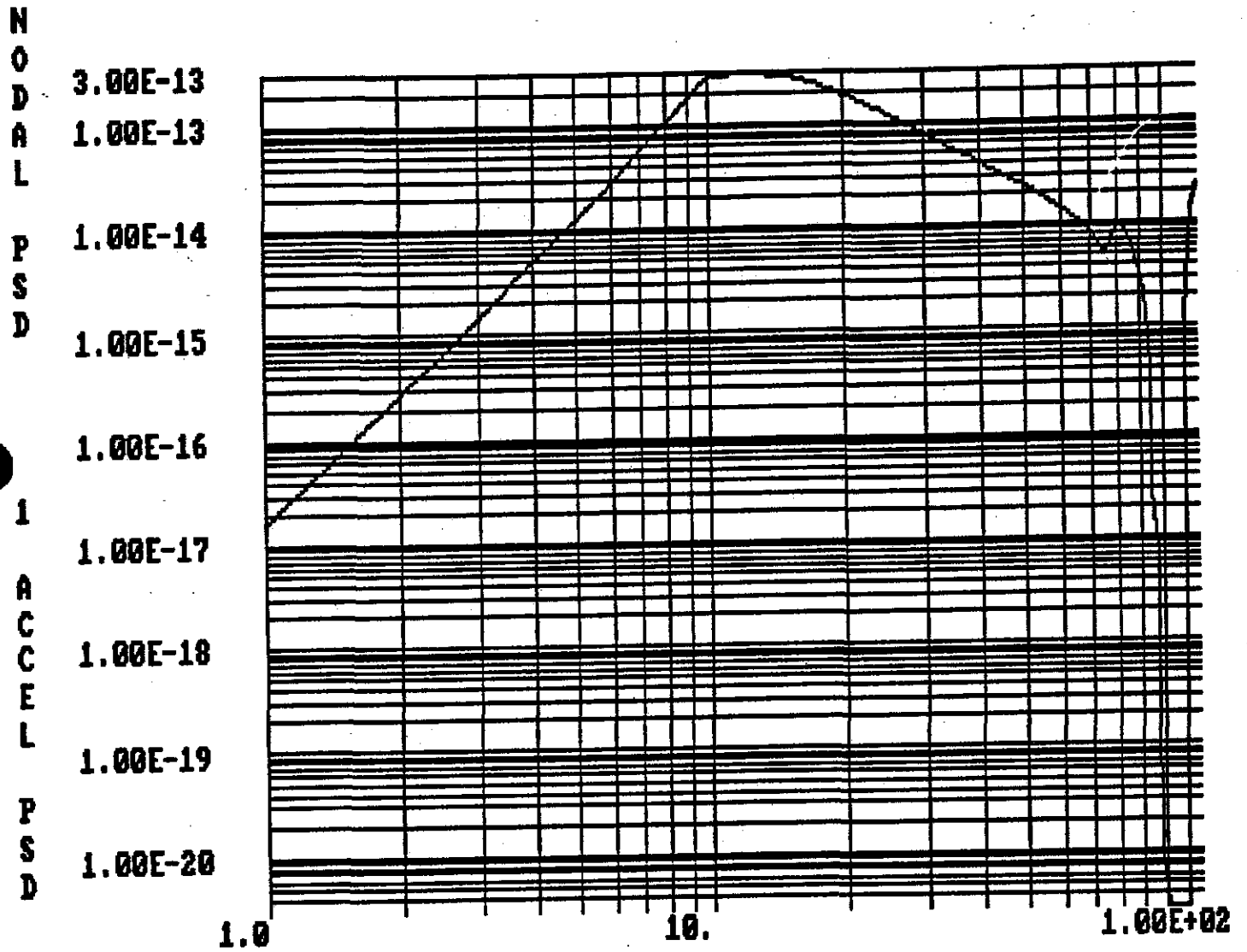
COR

36" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENERGY DAMPING)

START3	2	9	9	3	1	3.0	1.0	120.0
RMS					1			
PRINT								
	2	9	9					
	2	13	13					
END								
MODES								
	1		6					99.0
	7		50					99.0
END								
PSD	1		1					
NODES			150	1	150	2	150	3
END								
START PSD INPUT			1					
1 1 7 1 1								
6	1		1.0	1.618E-17	10.0	1.618E-13	100.0	1.618E-13
6	-7		200.0	1.618E-13				

ALL DONE

# 36" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENE

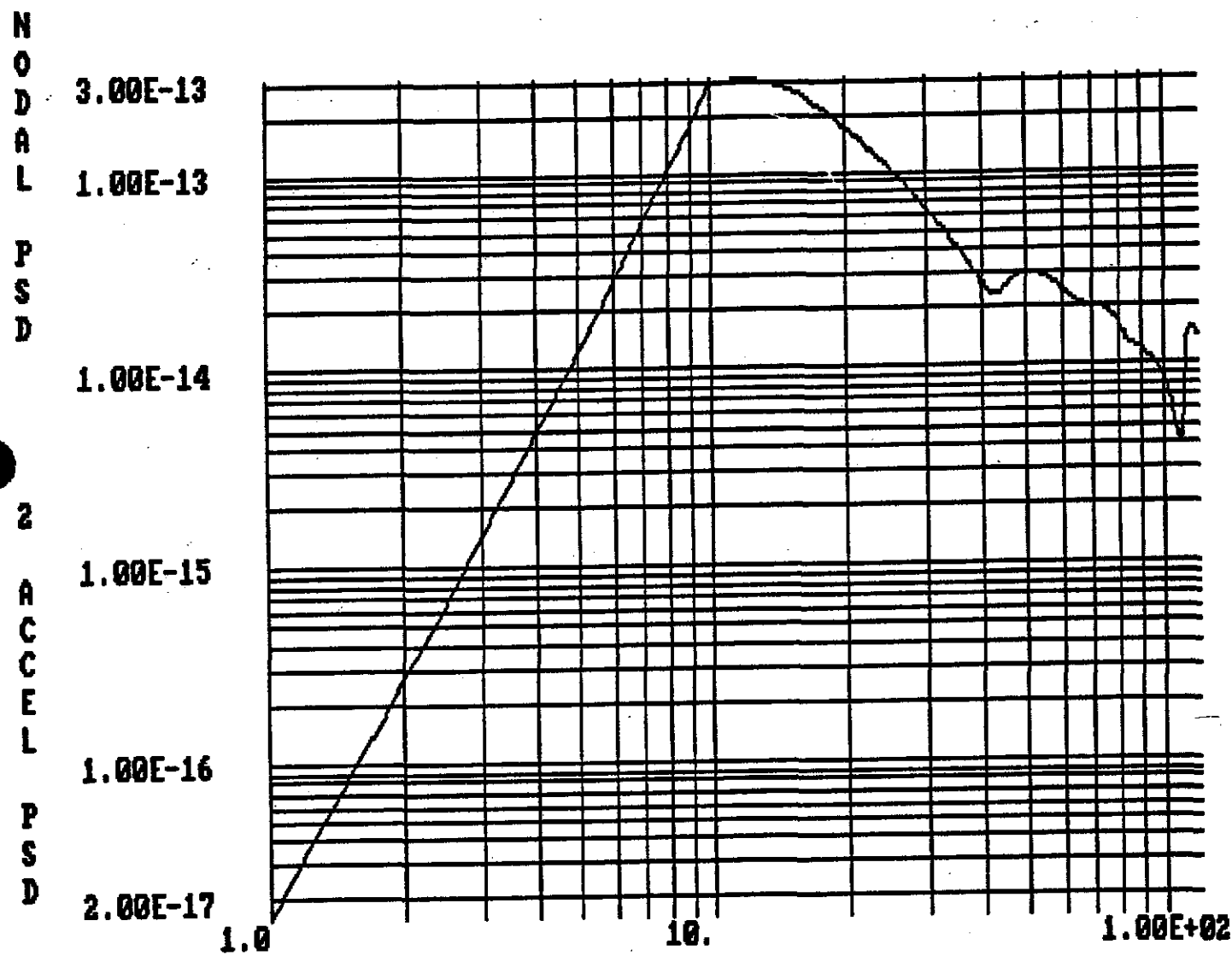


FREQUENCY (HZ)

PLOT NO =

1

# 36" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENE

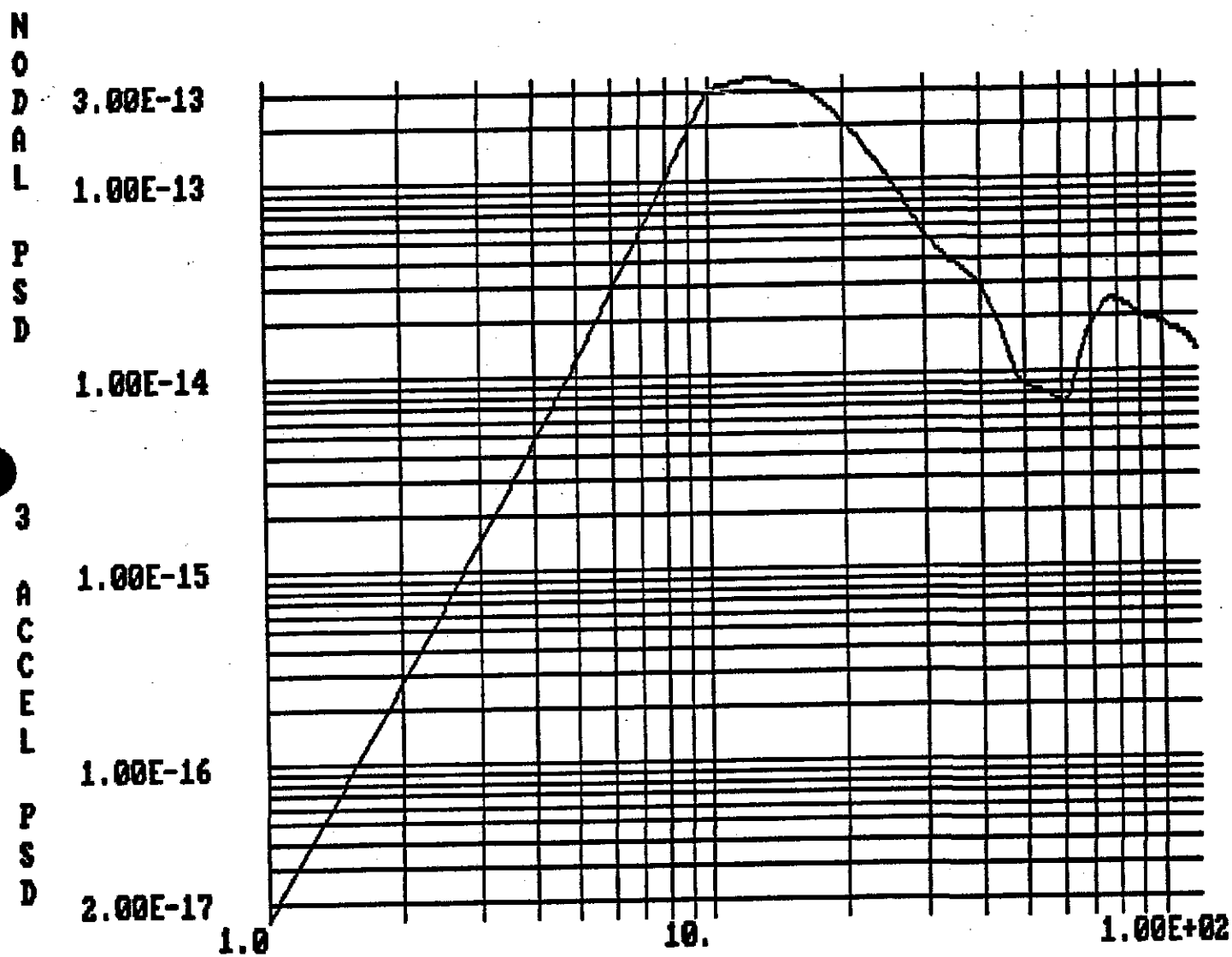


FREQUENCY (HZ)

PLOT NO =

2

# 36" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENE



FREQUENCY (HZ)

PLOT NO =

3

MID-FBI MODEL T-36 INCH

MODAL EXTRACTION DATA

MODE NO	EIGENVALUE (OMEGA**2)	NATURAL FREQUENCY	PERIOD	--MODAL WEIGHTS--			GENERALIZED MAX TRANSLATION (GEN. WGT. * PARTICIPATION)			
				WEIGHT	NODE-DOF	VALUE	X1	X2	X3	
1	7787.83	14.045	0.0712	735349.	233-2	1.0000	1607.55694	1021618.53649	1462.69969	12.0
2	8554.72	14.721	0.0679	0.120755E+07	150-1	1.0000	1104172.41431	2903.94841	17939.60960	12.0
3	9738.19	15.706	0.0637	476687.	162-3	1.0000	38014.72729	4192.46639	870705.87833	12.0
4	10876.3	16.598	0.0602	322469.	2-2	1.0000	285.82015	50412.10221	518.27603	12.0
5	14128.6	18.918	0.0529	531105.	219-3	1.0000	17325.99198	855.18725	65988.64544	12.0
6	15627.7	19.896	0.0503	278673.	191-3	1.0000	185.84524	74296.47151	70677.83612	12.0
7	18993.3	21.934	0.0456	194084.	3-3	1.0000	286.81174	6469.07917	114545.14649	12.0
8	21140.4	23.141	0.0432	183179.	7-3	1.0000	458.39314	5820.02856	1612.20057	12.0
9	30079.5	27.603	0.0362	99480.3	238-3	1.0000	12.43766	247.52205	5811.52024	12.0
10	30992.8	28.019	0.0357	96623.5	3-3	1.0000	6463.95401	67.62893	700.05949	12.0
11	41302.7	32.345	0.0309	187732.	154-3	1.0000	7.69259	43.31182	15243.35351	12.0
12	46448.5	34.301	0.0292	25105.0	6-3	1.0000	216.17408	50.37843	883.37940	12.0
13	54260.1	37.073	0.0270	55907.8	238-3	1.0000	1.87507	1.88721	739.25038	12.0
14	56709.8	37.901	0.0264	55968.5	236-3	1.0000	90.60378	15.91027	2246.59317	12.0
15	70723.1	42.325	0.0236	47937.7	238-3	1.0000	5.81345	96.88727	1.45986	12.0
16	81146.0	45.337	0.0221	26965.5	6-2	1.0000	0.10078	1382.93535	20.01012	12.0
17	94912.0	49.032	0.0204	14743.2	238-2	1.0000	58.45640	17.94036	11.45023	12.0
18	95342.1	49.143	0.0203	29775.0	4-3	1.0000	168.81894	50.88698	252.49963	12.0
19	101925.	50.811	0.0197	58525.9	6-2	1.0000	130.80727	8.13759	21.40938	12.0
20	108167.	52.344	0.0191	55308.9	6-2	1.0000	44.44728	58.67273	33.16281	12.0
21	130431.	57.479	0.0174	48704.4	3-3	1.0000	8.62587	1.61222	0.43764	12.0
22	167514.	65.140	0.0154	43306.7	231-3	1.0000	0.12148	120.03408	0.07107	12.0
23	176433.	66.851	0.0150	92289.4	238-3	1.0000	5.06468	355.91493	41.39711	12.0
24	197890.	70.800	0.0141	111918.	236-3	1.0000	2.54264	243.24725	4.02862	12.0
25	199270.	71.046	0.0141	58337.3	236-3	1.0000	10.71938	185.36920	6.78152	12.0
26	218106.	74.328	0.0135	66315.2	235-3	1.0000	0.40135	25.41675	5.98364	12.0
27	237698.	77.595	0.0129	29783.4	3-1	1.0000	22.02985	1.95647	0.08522	12.0
28	242249.	78.334	0.0128	62846.1	4-3	1.0000	44.69892	6.66548	0.02891	12.0
29	264634.	81.873	0.0122	109541.	236-1	1.0000	0.41812	0.77695	0.28665	12.0
30	271290.	82.897	0.0121	85454.7	6-3	1.0000	0.13966	19.48600	2.21989	12.0
31	284411.	84.878	0.0118	105525.	4-1	1.0000	1.90376	15.11405	0.01395	12.0
32	346108.	93.632	0.0107	65884.4	236-3	1.0000	6.05484	5.90287	0.48859	12.0
33	372647.	97.156	0.0103	47095.7	3-3	1.0000	0.38888	10.16222	0.97982	12.0
34	381216.	98.267	0.0102	65081.0	4-3	1.0000	0.34402	13.55947	1.98599	12.0
35	477444.	109.972	0.0091	54184.1	231-3	1.0000	2.63337	0.09768	0.04520	12.0
36	496627.	112.159	0.0089	125958.	4-1	1.0000	12.11222	2.79985	0.00007	12.0
37	543034.	117.283	0.0085	100090.	236-1	1.0000	11.44036	0.12077	0.14620	12.0
38	544477.	117.438	0.0085	102281.	231-3	1.0000	7.19444	0.03198	0.20874	12.0
39	586128.	121.847	0.0082	36728.9	236-3	1.0000	3.11645	0.16662	0.01888	12.0
40	670376.	130.310	0.0077	126988.	238-3	1.0000	0.69199	0.92264	0.51755	12.0
41	685847.	131.806	0.0076	90116.4	4-1	1.0000	0.07718	0.90760	0.00911	12.0
42	701619.	133.313	0.0075	181927.	6-2	1.0000	0.14628	3.19188	0.31263	12.0
43	709064.	134.018	0.0075	41956.0	236-3	1.0000	0.14573	27.68288	9.15601	12.0
44	743515.	137.235	0.0073	68416.5	6-3	1.0000	3.04780	0.20111	0.00675	12.0
45	776783.	140.272	0.0071	299928.	214-2	1.0000	0.06825	0.07947	0.00777	11.1
46	782429.	140.780	0.0071	55647.7	238-3	1.0000	1.07947	0.00515	0.50609	10.9
47	814060.	143.598	0.0070	85509.5	238-1	1.0000	4.26093	0.10282	0.00155	11.1
48	827597.	144.787	0.0069	45161.2	1-3	1.0000	1.09579	3.02728	0.13639	10.2
49	857814.	147.407	0.0068	153622.	235-1	1.0000	0.72168	0.00037	0.00990	10.0
50	862650.	147.821	0.0068	55937.2	4-3	1.0000	0.00059	8.34372	4.29378	9.5

THE FOLLOWING ARE APPROX. EIGENVALUES FOR WHICH MODES WERE NOT REQUESTED.

51	961736.	156.080					9.0			
52	0.101185E+07	160.095					6.4			
53	0.103625E+07	162.014					6.5			
54	0.106654E+07	164.365					6.2			
55	0.109877E+07	166.829					5.4			
56	0.120446E+07	174.669					3.6			

COR

```

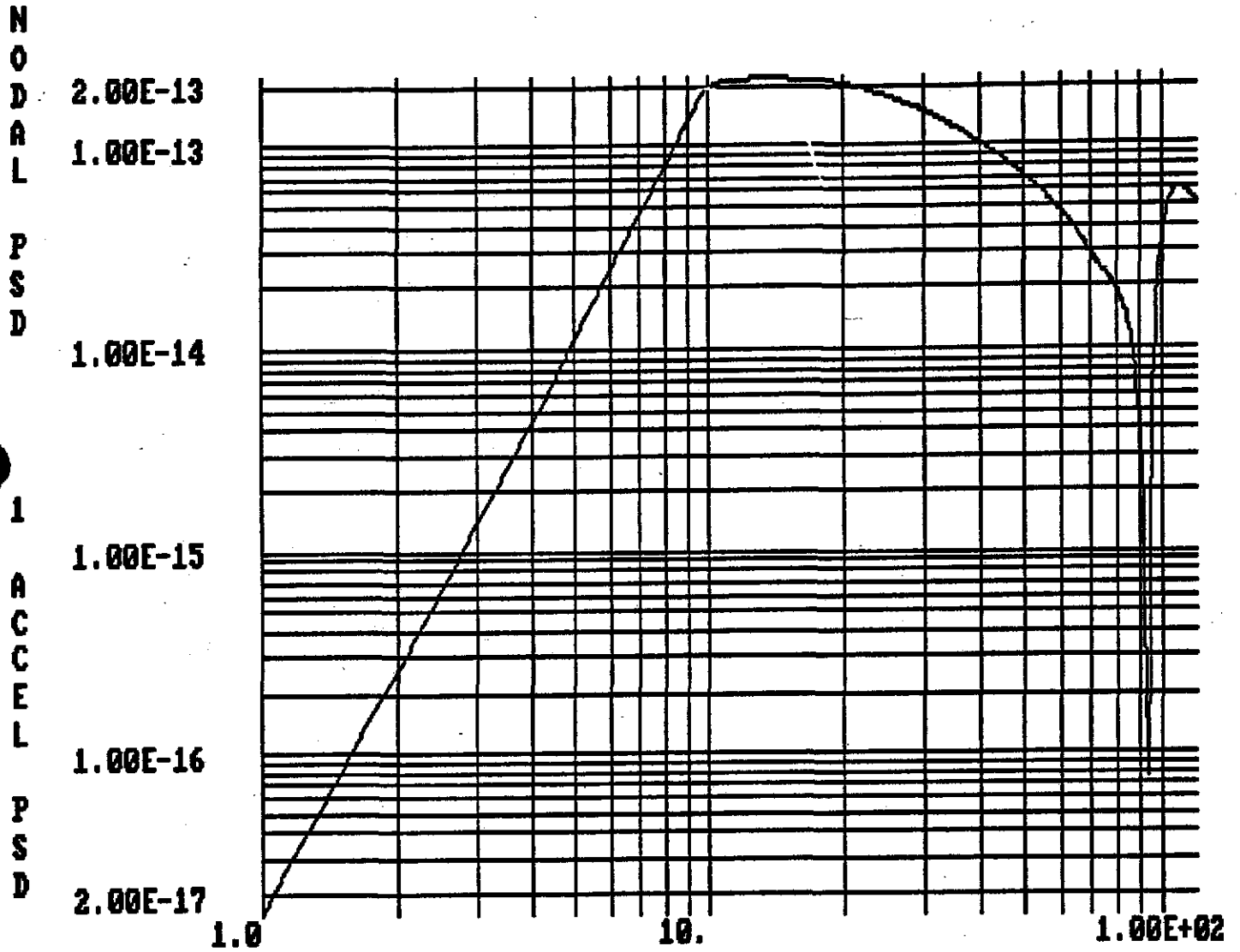
18" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENERGY DAMPING)
START3          3          1          3.0          1.0          120.0
RMS              1          1
PRINT
      2      9      9
      2     13     13
END
MODES
      1          6          99.0
      7          70         99.0
END
PSD          1          1
NODES          150          1          150          2          150          3
END
START PSD INPUT 1
  1 1 7 1 1
  6          1          1.0 1.618E-17          10.0 1.618E-13          100.0 1.618E-13
  6          -7          200.0 1.618E-13
ALL DONE

```

*correlated*



18" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENE



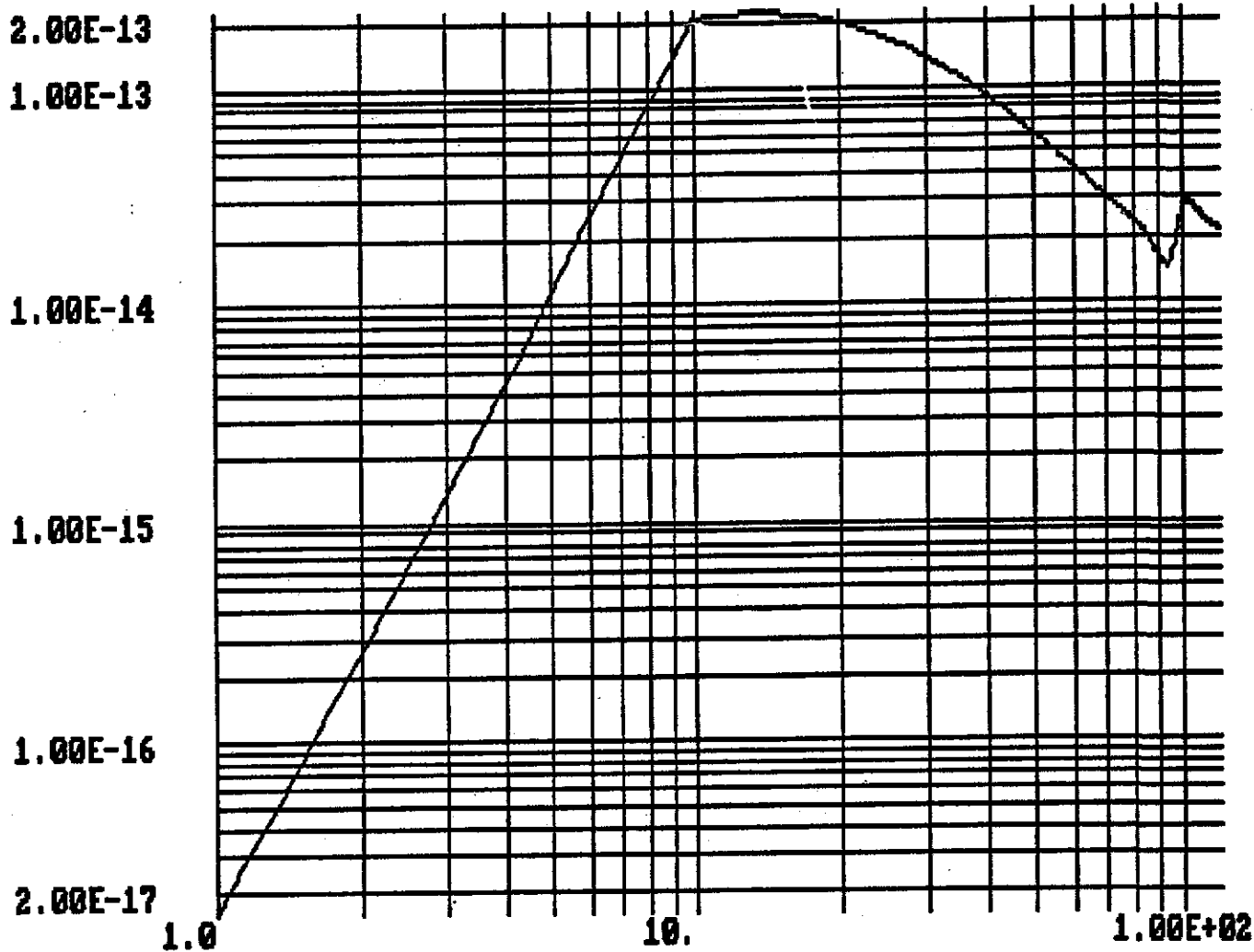
FREQUENCY (HZ)

PLOT NO =

1

# 18" MID-PBI RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENE

N  
O  
D  
A  
L  
  
P  
S  
D  
  
2  
  
A  
C  
C  
E  
L  
  
P  
S  
D

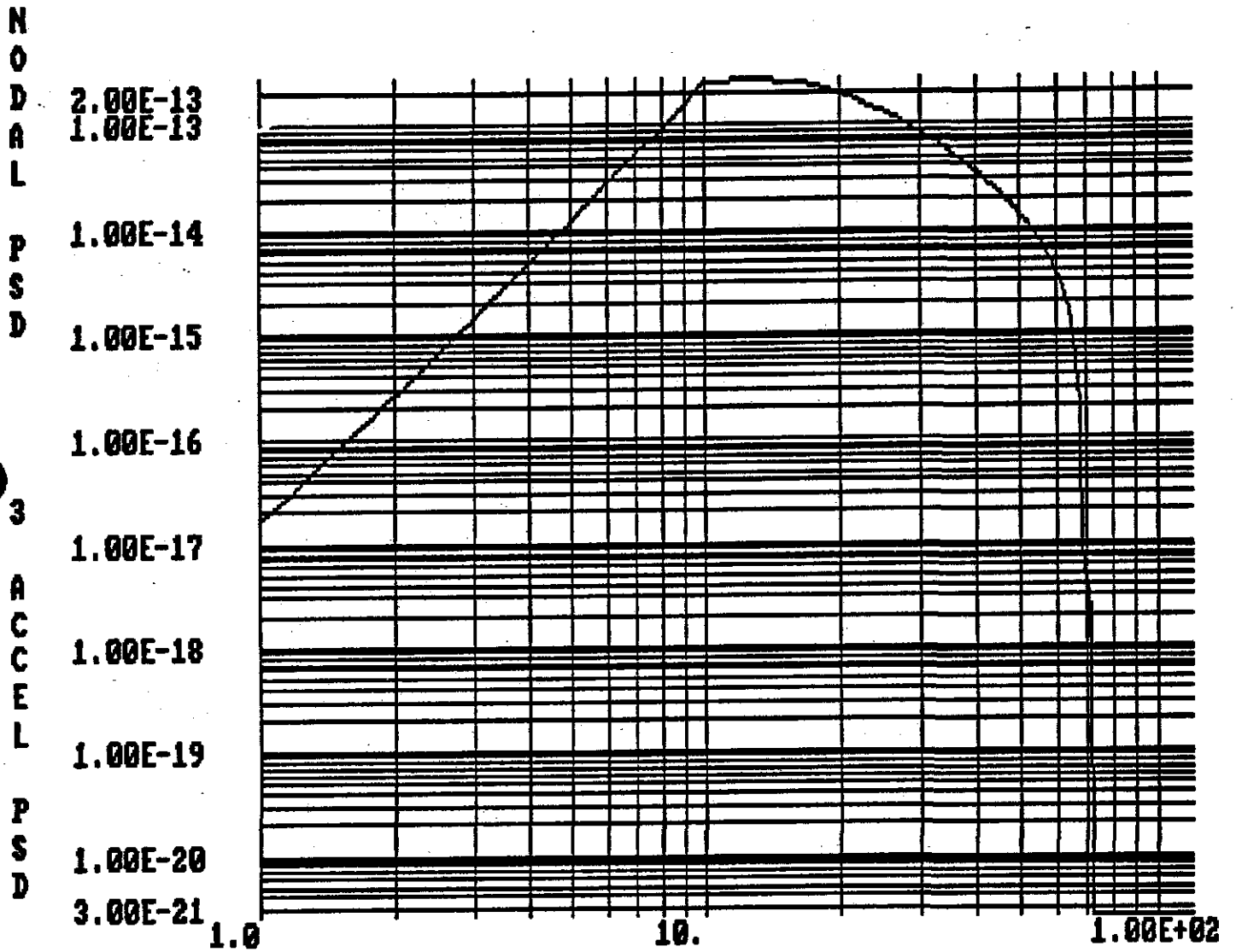


FREQUENCY (HZ)

PLOT NO =

2

# 18" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENE



FREQUENCY (HZ)

PLOT NO =

3

UNC

68" MID-PB1 (unc) RESP TO GROUND PSD SPECTRUM (STRAIN ENERGY DAMPING)  
 START3 3 1 3.0 1.0 120.0  
 RMS 1 1  
 PRINT

2 9 9  
 2 13 13

END  
 MODES

1 6 99.0  
 7 36 99.0

END

PSD  
 NODES

1 1 150 1 150 2 150 3

END

START PSD INPUT 1

1 1 7 1 2

6 1

6 -7

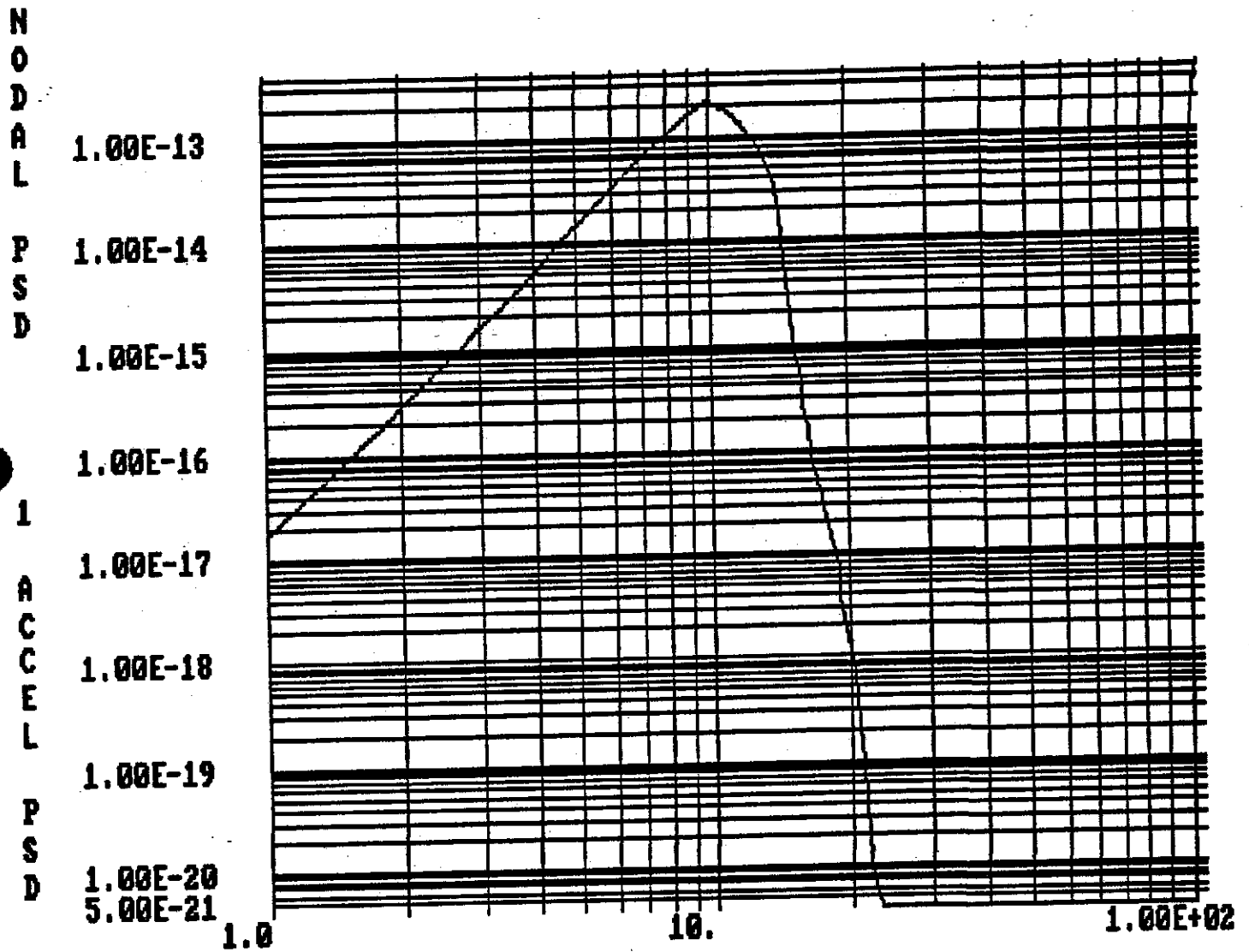
1.0 1.618E-17  
 200.0 1.618E-13

10.0 1.618E-13

100.0 1.618E-13

ALL DONE

68" MID-PB1 (Unc) RESP TO GROUND PSD SPECTRUM (STRAIN EN

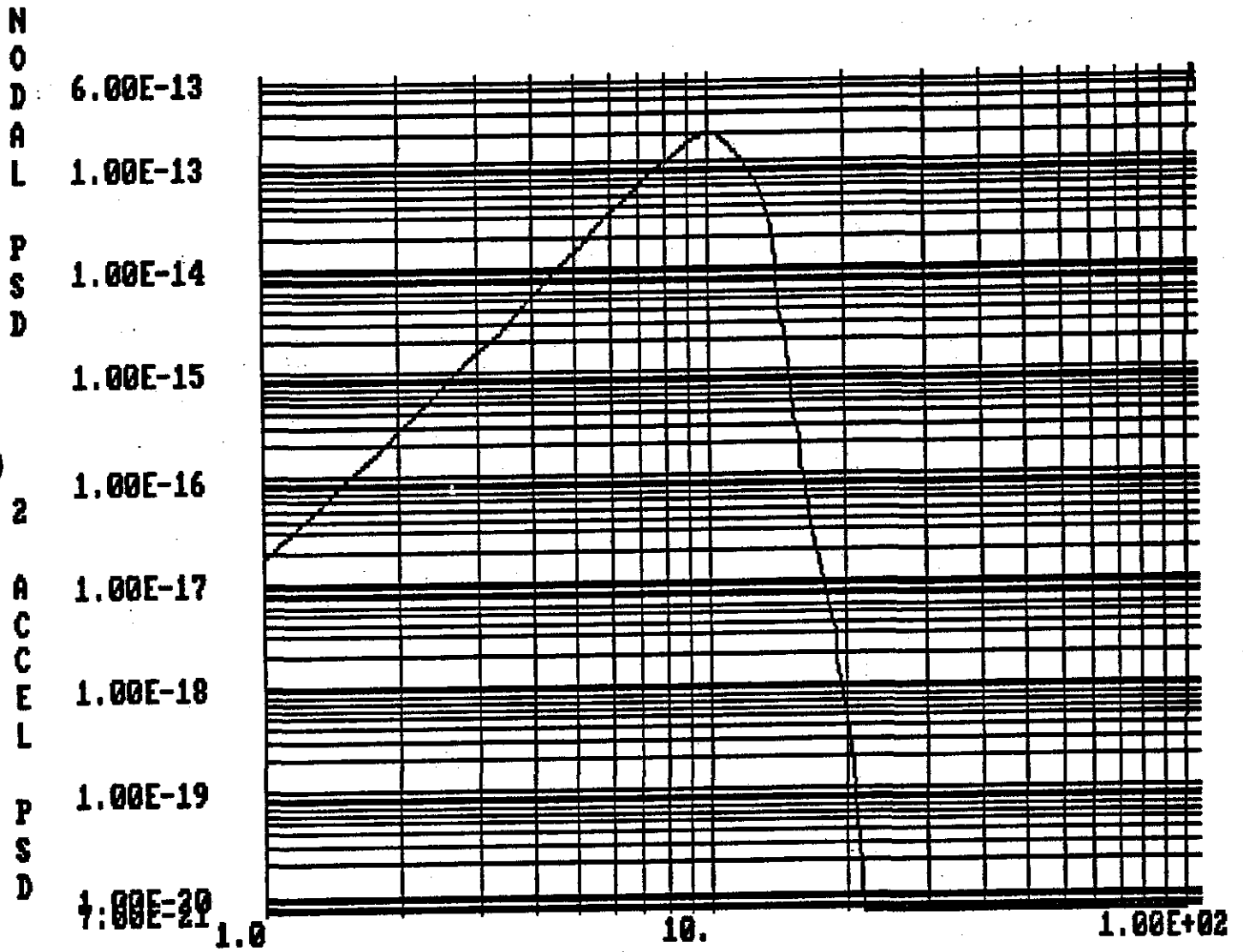


FREQUENCY (HZ)

PLOT NO =

1

68" MID-PB1 (Unc) RESP TO GROUND PSD SPECTRUM (STRAIN EN

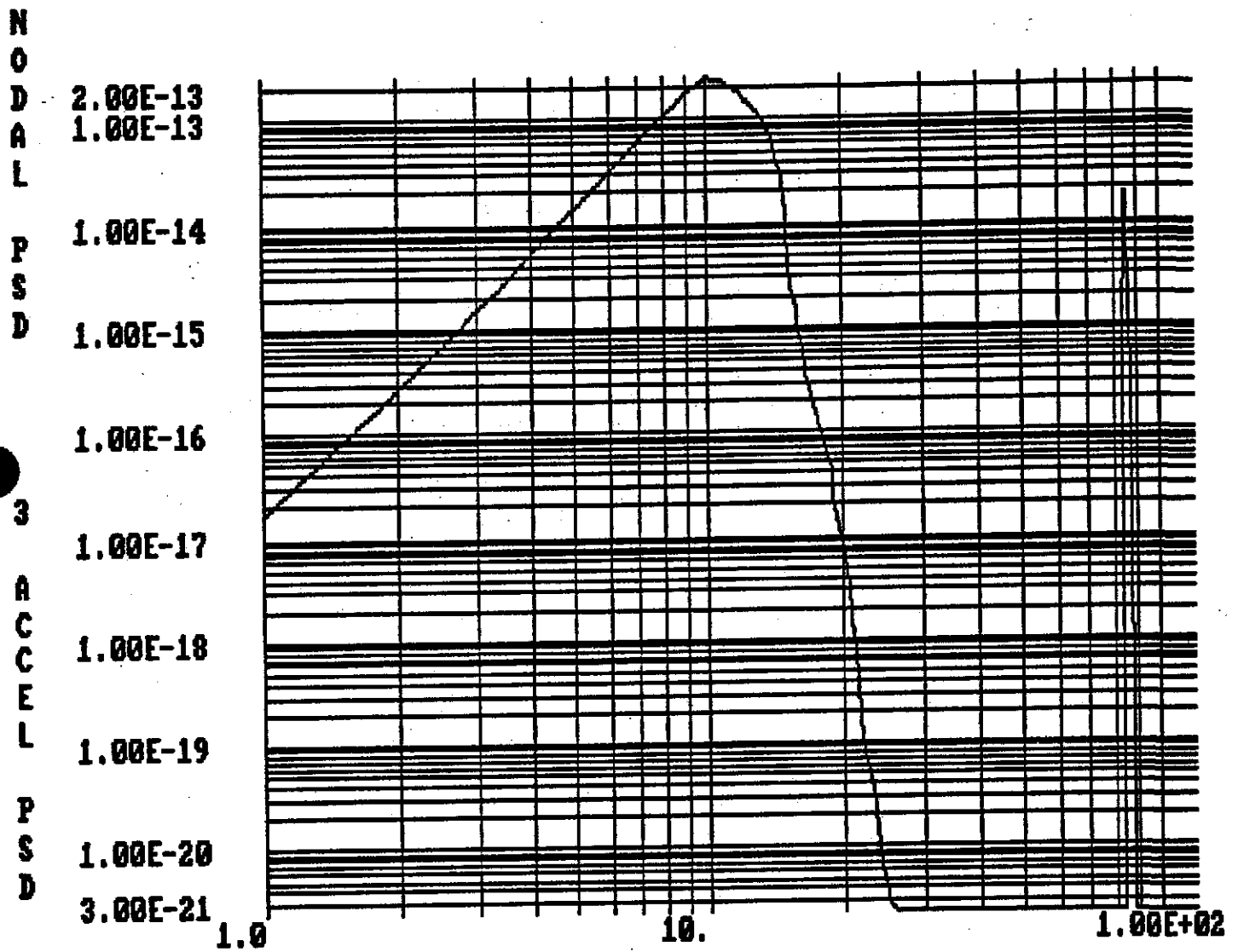


FREQUENCY (HZ)

PLOT NO =

2

68" MID-PB1 (Unc) RESP TO GROUND PSD SPECTRUM (STRAIN EN



FREQUENCY (HZ)

PLOT NO =

3

UNC

```

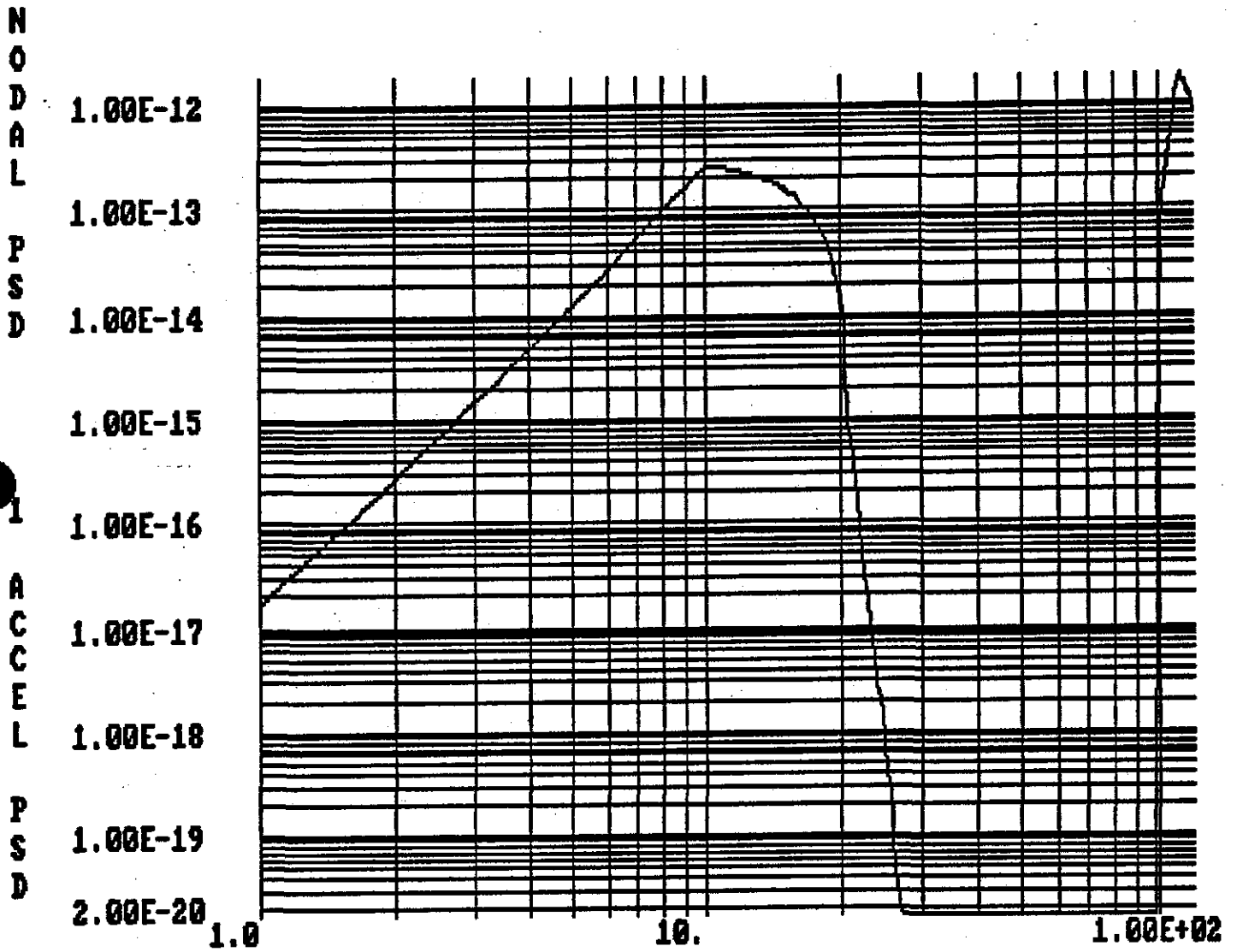
36" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENERGY DAMPING)
START3          3          1          3.0          1.0          120.0
RMS              1          1
PRINT
                2          9          9
                2          13         13
END
MODES
                1          6          99.0
                7          50         99.0
END
PSD              1          1
NODES            150         1          150          2          150          3
END
START PSD INPUT  1
  1 1 7 1 2
  6      1          1.0 1.618E-17      10.0 1.618E-13      100.0 1.618E-13
  6      -7         200.0 1.618E-13
ALL DONE

```

*fully uncorrelated*



# 36" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENE

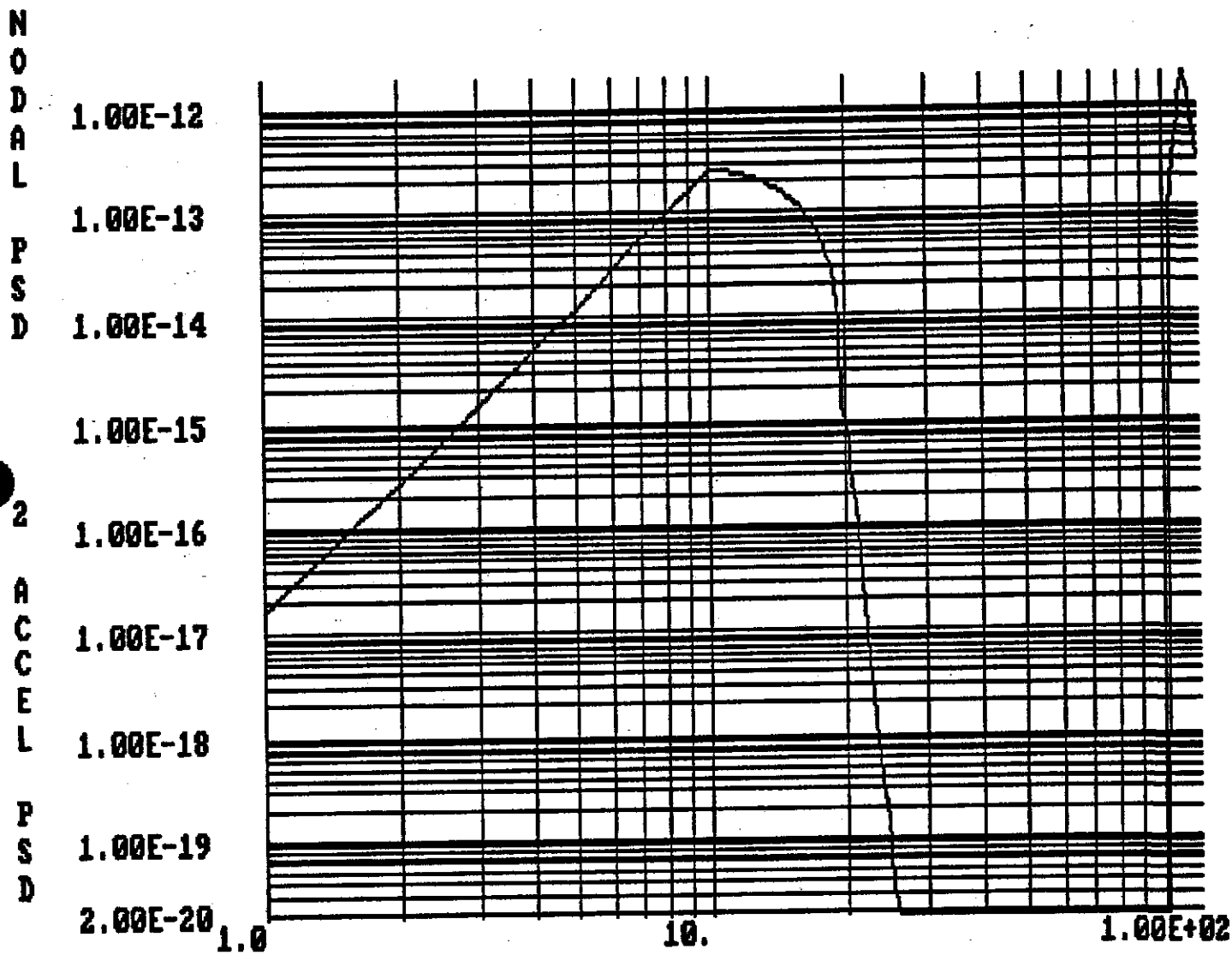


FREQUENCY (HZ)

PLOT NO =

1

# 36" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENE

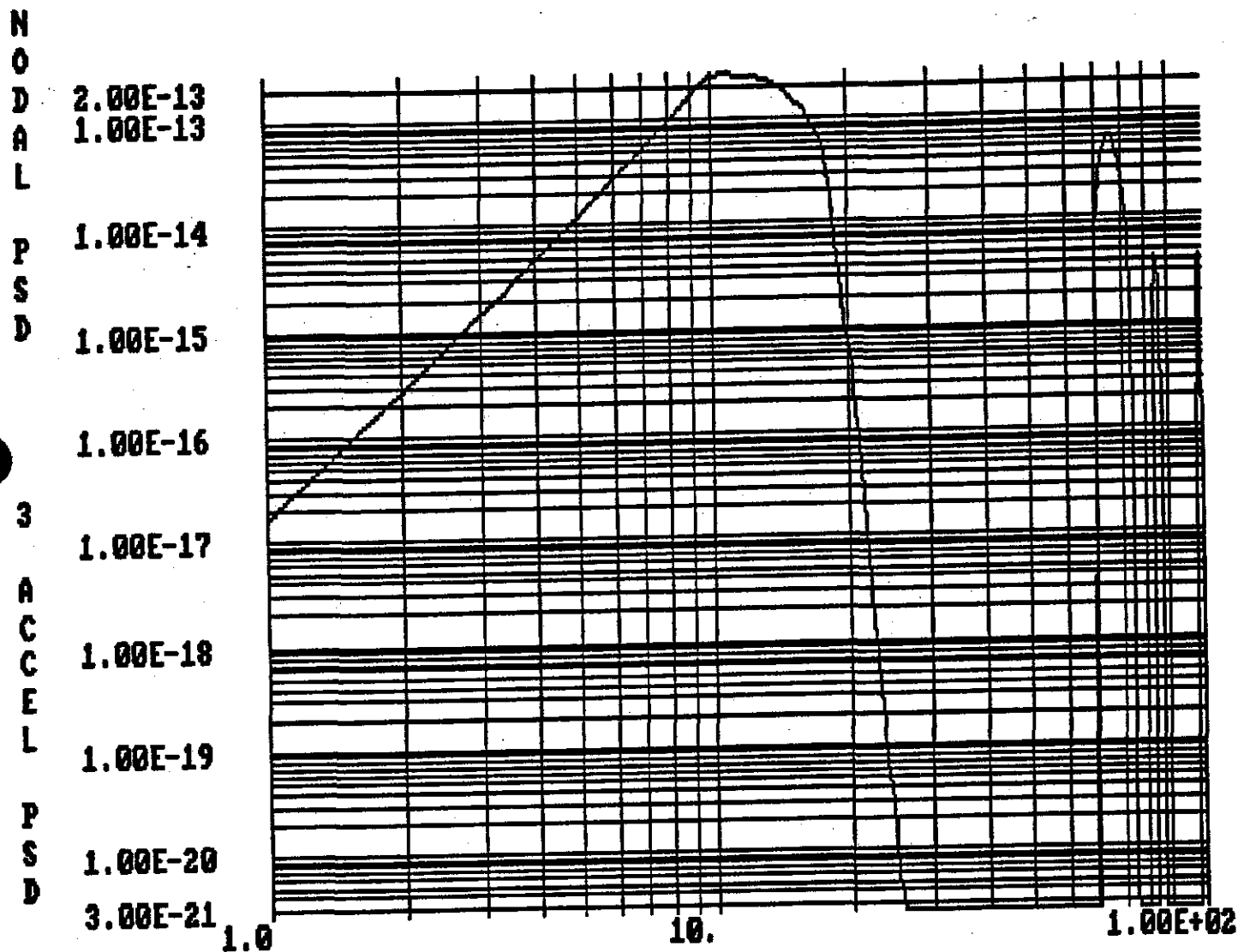


FREQUENCY (HZ)

PLOT NO =

2

# 36" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENE



FREQUENCY (HZ)

PLOT NO =

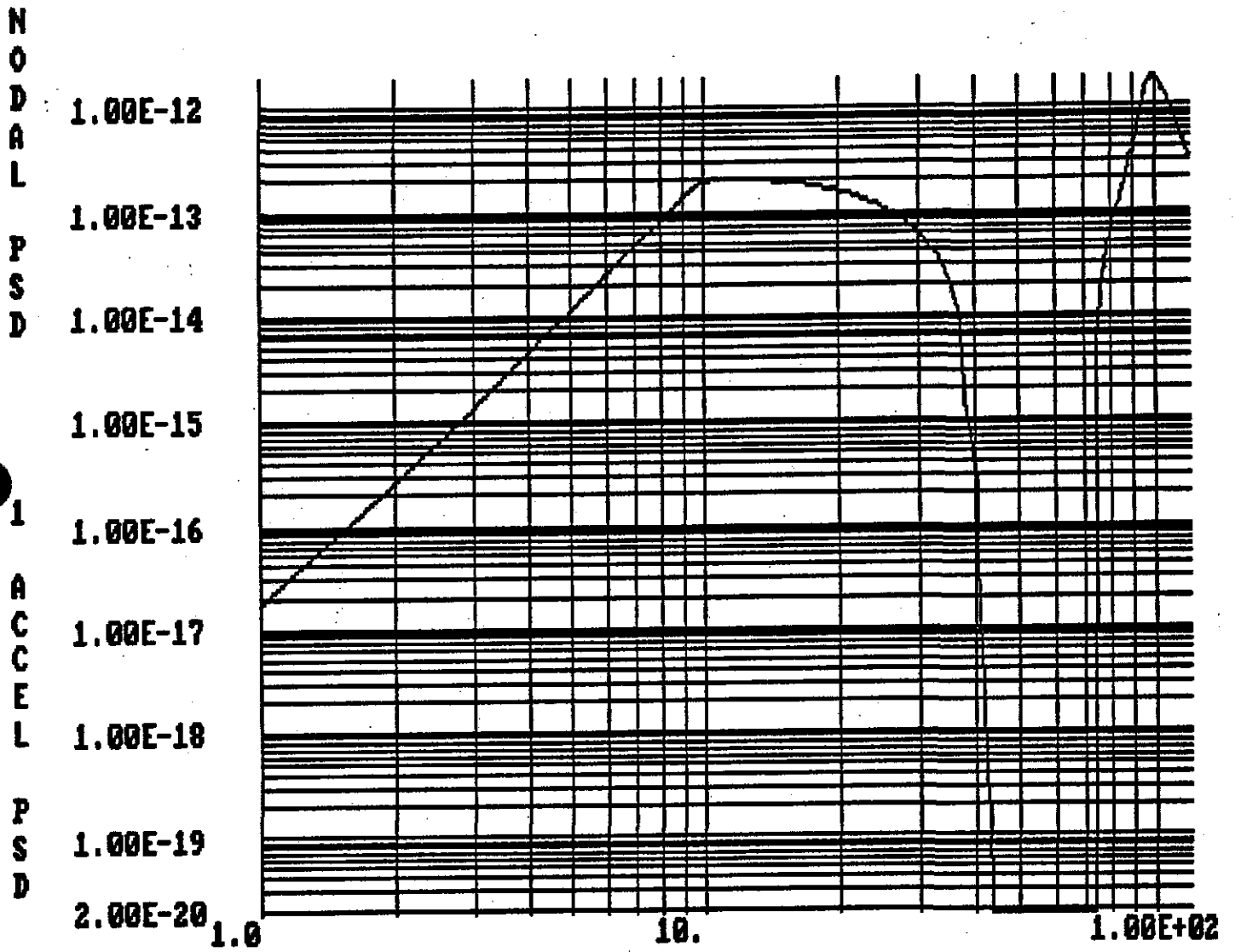
3

VNC

```
18" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENERGY DAMPING)
START3          3          1          3.0          1.0          120.0
RMS
PRINT          1
              2      9      9
              2     13     13
END
MODES
              1          6          99.0
              7          70         99.0
END
PSD
NODES         1          1
              150          1          150          2          150          3
END
START PSD INPUT 1
1 1 7 1 2
6          1          1.0 1.618E-17          10.0 1.618E-13          100.0 1.618E-13
6          -7         200.0 1.618E-13
ALL DONE
```

*un correlated*

18" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENE

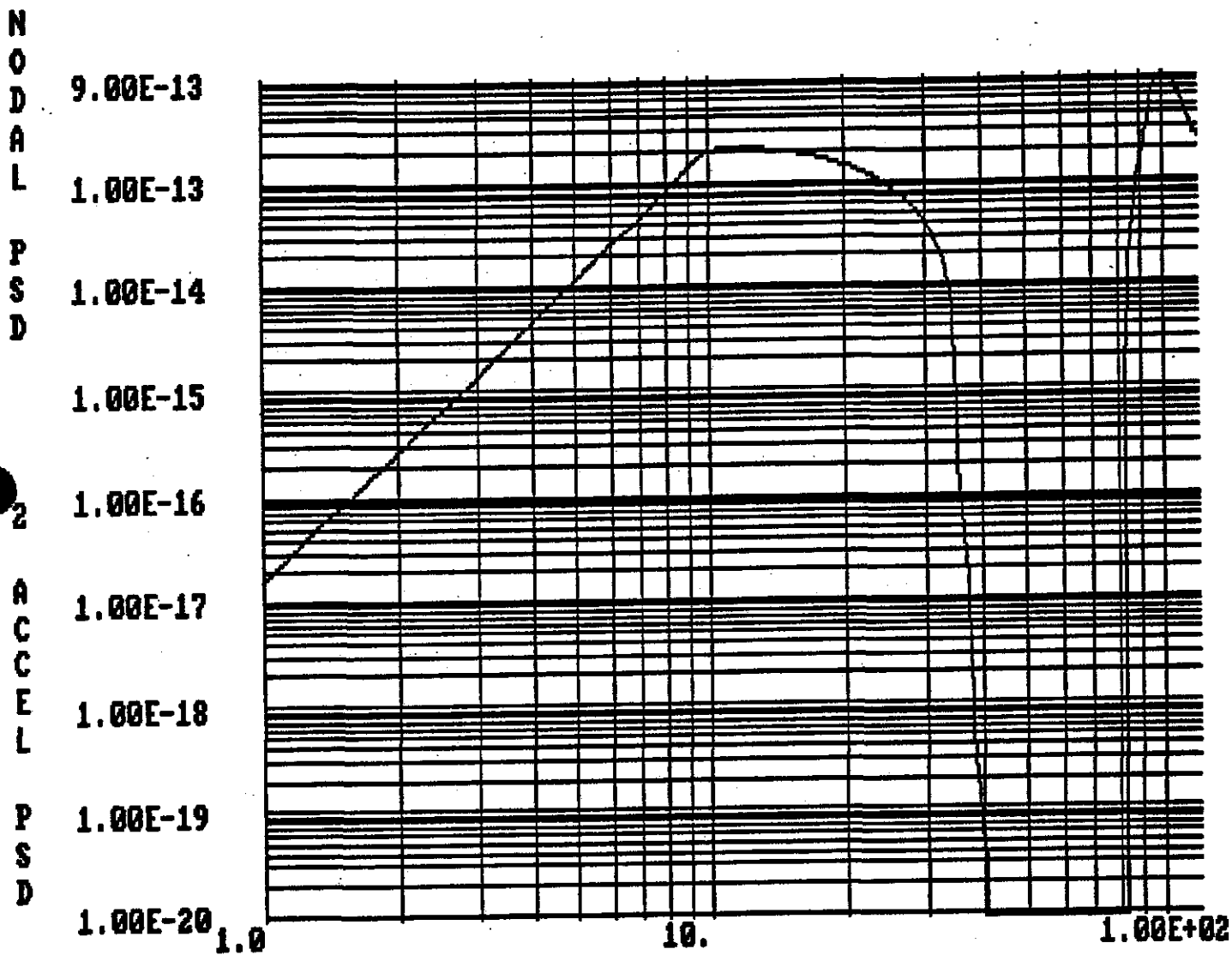


FREQUENCY (HZ)

PLOT NO =

1

# 18" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENE



FREQUENCY (HZ)

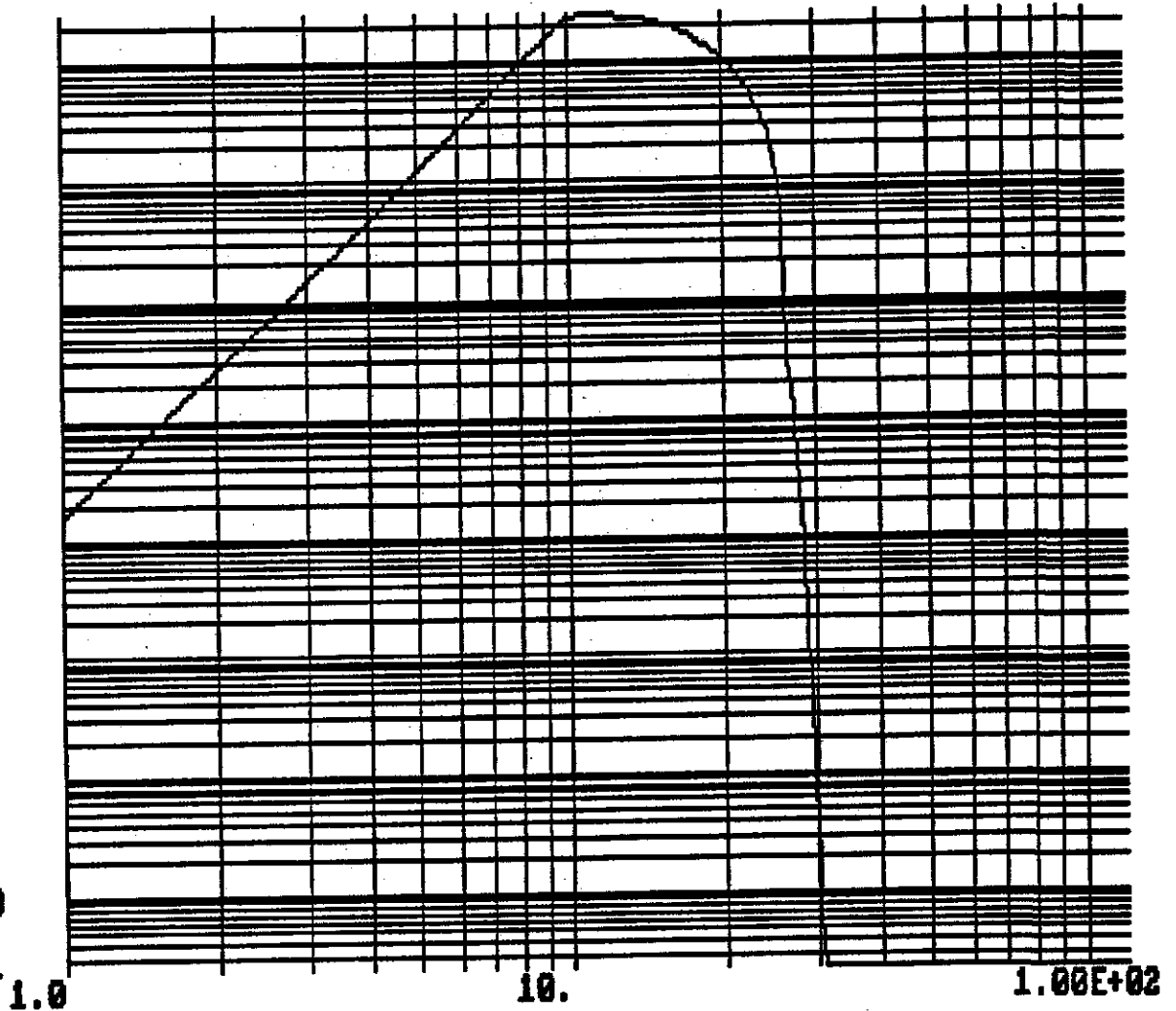
PLOT NO =

2

# 18" MID-PB1 RESPONSE TO GROUND PSD SPECTRUM (STRAIN ENE

N  
O  
D  
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L  
  
P  
S  
D  
  
A  
C  
C  
E  
L  
  
P  
S  
D

2.00E-13  
1.00E-13  
  
1.00E-14  
  
1.00E-15  
  
1.00E-16  
  
1.00E-17  
  
1.00E-18  
  
1.00E-19  
  
1.00E-20  
3.00E-21



FREQUENCY (HZ)

PLOT NO =

3

MODE NUMBER	FREQUENCY (CPS)	GENERALIZED WEIGHT	DAMPING	PARTICIPATION X1	PARTICIPATION X2	FAC
1	0.167849E+02	0.122783E+06	0.7496	-0.110282E+00	-0.132108E+00	
2	0.183183E+02	0.393375E+06	0.9331	-0.126838E-01	0.120518E+01	
3	0.195704E+02	0.600344E+06	0.9550	0.102752E+01	0.154043E-01	
4	0.217212E+02	0.175289E+06	0.9265	-0.549995E-01	0.489889E+00	
5	0.235896E+02	0.111814E+06	0.8762	0.116813E+00	-0.135561E+00	
6	0.248423E+02	0.164052E+06	0.9114	-0.602113E-01	-0.162656E+00	
7	0.262181E+02	0.118285E+06	0.8649	-0.374509E-01	0.252946E+00	
8	0.281847E+02	0.192389E+06	0.8728	0.306947E-01	0.139537E+00	
9	0.292444E+02	0.960589E+05	0.8316	-0.880788E-01	-0.155144E+00	
10	0.304112E+02	0.851676E+05	0.8200	0.227994E+00	-0.689669E-01	
11	0.318226E+02	0.524909E+05	0.7928	-0.373599E-01	-0.203603E-01	
12	0.338281E+02	0.711915E+05	0.7485	0.347445E-01	-0.379672E-01	
13	0.348564E+02	0.386835E+05	0.7428	-0.224312E-02	0.750295E-01	
14	0.354884E+02	0.667912E+05	0.7800	0.714392E-02	-0.301246E-01	
15	0.376686E+02	0.381941E+05	0.7091	0.292238E-01	-0.167339E+00	
16	0.402933E+02	0.751952E+05	0.6135	-0.585338E-01	-0.329358E-01	
17	0.405957E+02	0.450252E+05	0.6624	-0.208568E+00	0.536237E-01	
18	0.428511E+02	0.222095E+05	0.6413	0.456758E-01	0.228592E+00	
19	0.446530E+02	0.333747E+05	0.4357	0.614739E-02	0.118216E+00	
20	0.452846E+02	0.304986E+05	0.4788	0.265527E-01	0.198161E+00	
21	0.466705E+02	0.298185E+05	0.5664	-0.423123E-01	-0.999047E-01	
22	0.479575E+02	0.260241E+05	0.4916	0.359495E-01	0.301467E-01	
23	0.498280E+02	0.108676E+05	0.3949	-0.497527E-01	0.466309E-01	
24	0.499513E+02	0.180934E+05	0.4707	-0.279950E-01	0.438379E+00	
25	0.522337E+02	0.344987E+05	0.3868	-0.314975E-01	-0.207142E+00	
26	0.526403E+02	0.227969E+05	0.4495	-0.116262E+00	0.149018E-01	
27	0.532544E+02	0.190474E+05	0.3574	0.450223E-01	-0.876383E-01	
28	0.567108E+02	0.281188E+05	0.4125	0.767389E-01	0.243850E-01	
29	0.584278E+02	0.213580E+05	0.3932	0.929308E-02	-0.454642E-01	
30	0.605263E+02	0.354739E+05	0.3916	-0.158518E-01	-0.560130E-01	
31	0.638050E+02	0.214138E+05	0.3339	0.623658E-01	-0.496974E-02	
32	0.670830E+02	0.305311E+05	0.3234	0.691705E-02	0.203560E-01	
33	0.712757E+02	0.692555E+05	0.2186	-0.349627E-02	0.214749E-01	
34	0.713556E+02	0.504847E+05	0.2296	-0.228699E-01	-0.634083E-02	
35	0.726099E+02	0.247275E+05	0.2829	0.643627E-01	0.488180E-02	
36	0.762342E+02	0.296910E+05	0.2808	-0.450436E-01	0.360037E-03	
37	0.765949E+02	0.173221E+06	0.1238	0.166456E-01	-0.411705E-02	
38	0.770907E+02	0.618129E+05	0.2483	0.174361E-01	0.325921E-01	
39	0.790864E+02	0.456235E+05	0.1950	-0.287663E-01	-0.279254E-01	
40	0.803178E+02	0.110722E+06	0.1741	0.690786E-02	0.377656E-03	
41	0.810402E+02	0.524010E+05	0.2700	0.469231E-02	0.144957E-01	
42	0.836583E+02	0.686550E+05	0.1483	-0.477651E-02	-0.277172E-01	
43	0.839984E+02	0.408094E+05	0.2266	-0.335541E-02	-0.162944E-01	
44	0.875316E+02	0.383887E+05	0.2060	0.822079E-02	0.283373E-01	
45	0.884427E+02	0.444458E+05	0.2488	-0.903775E-02	0.363219E-01	
46	0.930433E+02	0.289325E+05	0.2070	0.170297E-01	-0.110341E-01	
47	0.969419E+02	0.392696E+05	0.1957	0.148281E-01	0.912447E-02	
48	0.975901E+02	0.459199E+05	0.2597	0.192732E-01	-0.405193E-02	
49	0.979996E+02	0.868648E+05	0.0644	0.315934E-01	-0.154759E-01	
50	0.992322E+02	0.172091E+05	0.2113	0.785297E-02	-0.309620E-01	
51	0.104155E+03	0.399936E+05	0.1752	-0.226448E-01	0.355779E-01	

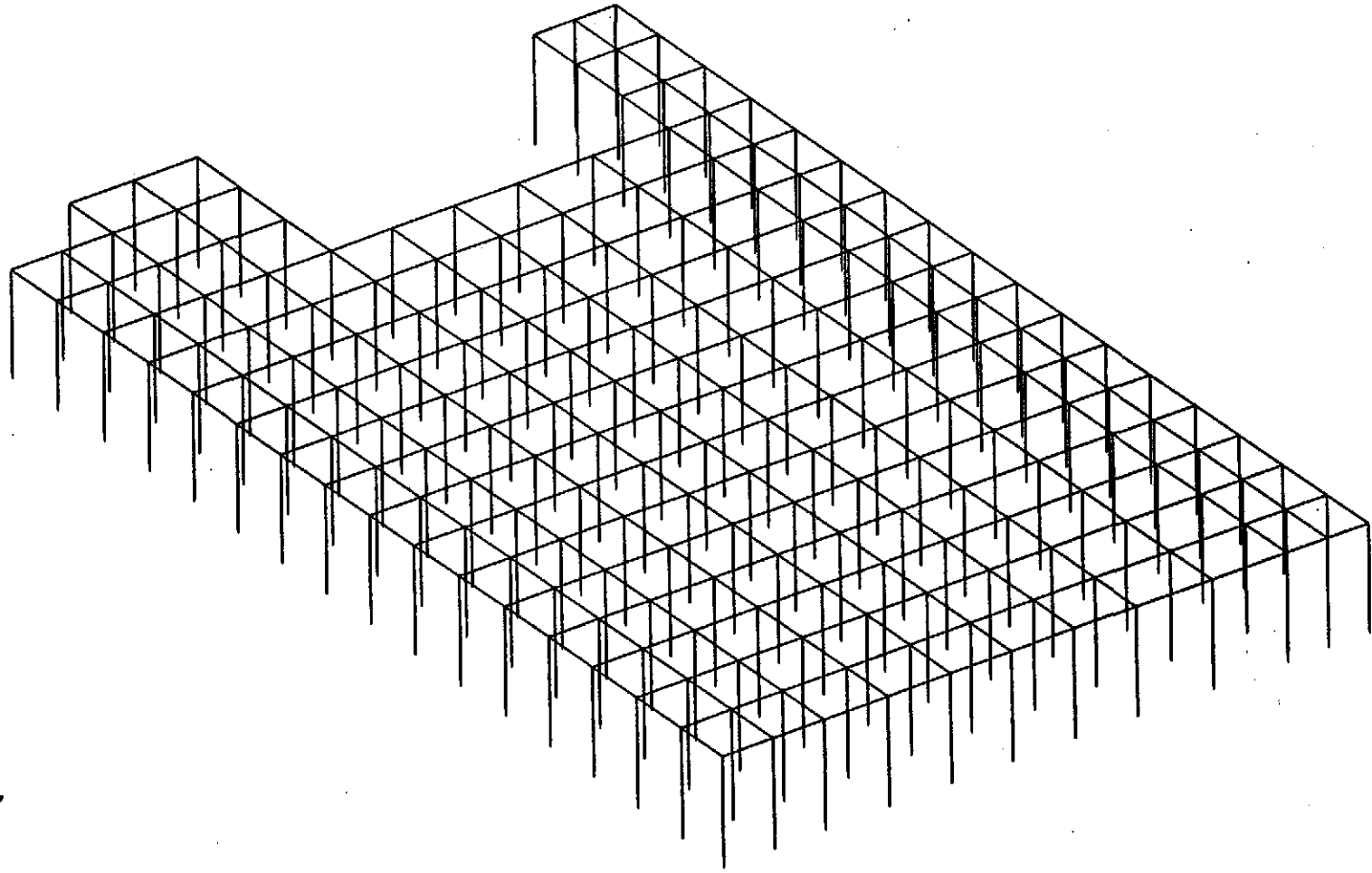


52	0.105149E+03	0.463579E+05	0.0785	0.381458E-01	-0.655401E-02
53	0.107236E+03	0.185039E+05	0.3117	0.198723E-01	0.138891E+00
54	0.108968E+03	0.202655E+05	0.2409	0.526671E-02	0.301035E-01
55	0.109748E+03	0.287988E+05	0.2437	0.139926E-01	-0.407622E-01
56	0.110919E+03	0.180513E+05	0.2039	-0.215510E-03	-0.504262E-01
57	0.115103E+03	0.110812E+05	0.2164	0.478023E-02	0.750271E-01
58	0.116836E+03	0.459358E+05	0.1657	0.120278E-01	0.301331E-01
59	0.119324E+03	0.183318E+05	0.1929	0.769448E-02	-0.248836E-01
60	0.120568E+03	0.246201E+05	0.2041	-0.834524E-02	-0.331145E-01
61	0.125489E+03	0.288833E+05	0.1266	-0.326086E-02	0.493174E-02
62	0.125942E+03	0.983148E+05	0.0811	-0.228335E-02	-0.492376E-02
63	0.127714E+03	0.335290E+05	0.1591	0.549949E-02	-0.991897E-02
64	0.128273E+03	0.217094E+05	0.1979	-0.233566E-02	-0.455079E-01
65	0.128718E+03	0.305671E+05	0.0598	0.549419E-02	0.645964E-02
66	0.131461E+03	0.356592E+05	0.1402	-0.520357E-02	-0.514910E-02
67	0.134087E+03	0.531889E+05	0.0510	0.400951E-02	0.139411E-02
68	0.135076E+03	0.255237E+05	0.1247	-0.879263E-02	0.316494E-02
69	0.135600E+03	0.282367E+05	0.1413	0.764428E-02	0.197362E-02
70	0.137404E+03	0.112959E+06	0.0504	-0.122147E-02	-0.899215E-03

END-PB1 MODEL T = 68 INCHES

(FILE: ENDPB68.SDN)

V1  
C1



(FILE: ENOP868.SDN)

MODE NUMBER	FREQUENCY (CPS)	GENERALIZED WEIGHT	DAMPING	PARTICIPATION FACTORS		
				X1	X2	X3
1	0.110437E+02	0.113970E+07	0.5178	0.754543E-01	0.115113E+01	-0.283063E-01
2	0.113459E+02	0.176291E+07	0.5185	0.945086E+00	-0.707424E-01	-0.983360E-01
3	0.131181E+02	0.108163E+07	0.5102	0.211201E+00	-0.387928E-01	0.110670E+01
4	0.131551E+02	0.527109E+06	0.5127	0.775858E-01	0.345231E+00	0.620083E+00
5	0.153264E+02	0.322541E+06	0.5107	-0.474348E+00	-0.279765E+00	0.692066E+00
6	0.165812E+02	0.330659E+06	0.5124	0.157337E+00	-0.562038E+00	-0.110214E+00
7	0.255356E+02	0.139239E+06	0.2328	-0.575504E-04	0.147736E-01	0.449550E-01
8	0.276303E+02	0.796091E+05	0.2293	-0.137410E-01	0.149713E-01	0.316733E+00
9	0.433215E+02	0.531099E+05	0.1196	-0.655998E-02	-0.176056E-01	0.786708E-01
10	0.465730E+02	0.164746E+05	0.1008	0.284356E-01	0.119787E+00	-0.476675E-01
11	0.487014E+02	0.210183E+05	0.0918	-0.999308E-03	0.708085E-02	0.670837E-01
12	0.530746E+02	0.842009E+05	0.0764	-0.540885E-01	-0.346243E-02	-0.310767E-01
13	0.640281E+02	0.109153E+06	0.0618	-0.104381E-01	0.569415E-02	0.146812E-01
14	0.654466E+02	0.801072E+05	0.0457	-0.337275E-02	0.209632E-01	0.225534E-02
15	0.743363E+02	0.772253E+05	0.0552	-0.190709E-02	-0.631292E-02	0.353702E-02
16	0.877849E+02	0.125156E+06	0.0338	0.445691E-02	-0.101498E-02	0.251255E-03
17	0.905928E+02	0.185670E+06	0.0317	0.771738E-02	0.462120E-02	0.800505E-02
18	0.909399E+02	0.164850E+06	0.0361	-0.582341E-02	0.128772E-02	0.899200E-02
19	0.976642E+02	0.330764E+06	0.0281	0.305519E-02	-0.319157E-02	-0.166257E-03
20	0.102591E+03	0.850539E+05	0.0389	-0.155590E-02	0.964192E-02	0.357627E-02
21	0.117218E+03	0.670877E+05	0.0348	0.290730E-02	0.292841E-02	-0.120597E-02
22	0.123480E+03	0.158860E+06	0.0262	-0.568353E-02	0.839169E-03	-0.511027E-04
23	0.127336E+03	0.174139E+06	0.0323	-0.947615E-03	-0.121975E-01	-0.170642E-02
24	0.132450E+03	0.223285E+06	0.0248	0.170323E-02	0.224932E-02	0.155454E-03
25	0.132671E+03	0.882961E+05	0.0325	-0.157925E-02	-0.776350E-02	0.210847E-02
26	0.136767E+03	0.182252E+06	0.0243	0.428770E-03	-0.277962E-02	-0.296263E-04
27	0.142737E+03	0.233919E+06	0.0240	0.230083E-02	-0.141121E-02	-0.123098E-04
28	0.148936E+03	0.307456E+06	0.0237	0.102124E-02	-0.105066E-02	-0.178878E-04

\*MODAL DAMPING (NBETA = 1) WILL BE USED\*

START 386.4  
 \*\*\*\*\*X  
 Written by : FEMAP X  
 Version : 4.30 X  
 From Model :LIGO END-PB1 T=68 INCHES X  
 Date : Thu Aug 24 13:40:08 1995 X  
 \*\*\*\*\*

MATLG,1,SOIL 1 - G,8354.,0.37,0.,0.,0.52,  
 MATLG,2,CONC 1 - G,3600001.,0.15,0.089355,0.,0.02,  
 END

NODE,	1,	0.,	66.,	0.
NODE,	2,	0.,	107.5,	0.
NODE,	3,	0.,	149.,	0.
NODE,	4,	0.,	369.,	0.
NODE,	5,	0.,	395.5,	0.
NODE,	6,	0.,	422.,	0.
NODE,	7,	39.,	0.,	0.
NODE,	8,	39.,	33.,	0.
NODE,	9,	39.,	66.,	0.
NODE,	10,	39.,	107.5,	0.
NODE,	11,	39.,	149.,	0.
NODE,	12,	39.,	369.,	0.
NODE,	13,	39.,	395.5,	0.
NODE,	14,	39.,	422.,	0.
NODE,	15,	80.75,	0.,	0.
NODE,	16,	80.75,	33.,	0.
NODE,	17,	80.75,	66.,	0.
NODE,	18,	80.75,	107.5,	0.
NODE,	19,	80.75,	149.,	0.
NODE,	20,	80.75,	369.,	0.
NODE,	21,	80.75,	395.5,	0.
NODE,	22,	80.75,	422.,	0.
NODE,	23,	122.5,	0.,	0.
NODE,	24,	122.5,	33.,	0.
NODE,	25,	122.5,	66.,	0.
NODE,	26,	122.5,	107.5,	0.
NODE,	27,	122.5,	149.,	0.
NODE,	28,	122.5,	189.,	0.
NODE,	29,	122.5,	230.,	0.
NODE,	30,	122.5,	271.,	0.
NODE,	31,	122.5,	320.,	0.
NODE,	32,	122.5,	369.,	0.
NODE,	33,	122.5,	395.5,	0.
NODE,	34,	122.5,	422.,	0.
NODE,	35,	163.1,	0.,	0.
NODE,	36,	163.1,	33.,	0.
NODE,	37,	163.1,	66.,	0.
NODE,	38,	163.1,	107.5,	0.
NODE,	39,	163.1,	149.,	0.
NODE,	40,	163.1,	189.,	0.
NODE,	41,	163.1,	230.,	0.
NODE,	42,	163.1,	271.,	0.
NODE,	43,	163.1,	320.,	0.
NODE,	44,	163.1,	369.,	0.
NODE,	45,	163.1,	395.5,	0.
NODE,	46,	163.1,	422.,	0.
NODE,	47,	203.7,	0.,	0.
NODE,	48,	203.7,	33.,	0.
NODE,	49,	203.7,	66.,	0.
NODE,	50,	203.7,	107.5,	0.
NODE,	51,	203.7,	149.,	0.
NODE,	52,	203.7,	189.,	0.
NODE,	53,	203.7,	230.,	0.
NODE,	54,	203.7,	271.,	0.
NODE,	55,	203.7,	320.,	0.

NODE,	56,	203.7,	369.,	0.
NODE,	57,	203.7,	395.5,	0.
NODE,	58,	203.7,	422.,	0.
NODE,	59,	244.3,	0.,	0.
NODE,	60,	244.3,	33.,	0.
NODE,	61,	244.3,	66.,	0.
NODE,	62,	244.3,	107.5,	0.
NODE,	63,	244.3,	149.,	0.
NODE,	64,	244.3,	189.,	0.
NODE,	65,	244.3,	230.,	0.
NODE,	66,	244.3,	271.,	0.
NODE,	67,	244.3,	320.,	0.
NODE,	68,	244.3,	369.,	0.
NODE,	69,	244.3,	395.5,	0.
NODE,	70,	244.3,	422.,	0.
NODE,	71,	284.9,	0.,	0.
NODE,	72,	284.9,	33.,	0.
NODE,	73,	284.9,	66.,	0.
NODE,	74,	284.9,	107.5,	0.
NODE,	75,	284.9,	149.,	0.
NODE,	76,	284.9,	189.,	0.
NODE,	77,	284.9,	230.,	0.
NODE,	78,	284.9,	271.,	0.
NODE,	79,	284.9,	320.,	0.
NODE,	80,	284.9,	369.,	0.
NODE,	81,	284.9,	395.5,	0.
NODE,	82,	284.9,	422.,	0.
NODE,	83,	325.5,	0.,	0.
NODE,	84,	325.5,	33.,	0.
NODE,	85,	325.5,	66.,	0.
NODE,	86,	325.5,	107.5,	0.
NODE,	87,	325.5,	149.,	0.
NODE,	88,	325.5,	189.,	0.
NODE,	89,	325.5,	230.,	0.
NODE,	90,	325.5,	271.,	0.
NODE,	91,	325.5,	320.,	0.
NODE,	92,	325.5,	369.,	0.
NODE,	93,	325.5,	395.5,	0.
NODE,	94,	325.5,	422.,	0.
NODE,	95,	366.1,	0.,	0.
NODE,	96,	366.1,	33.,	0.
NODE,	97,	366.1,	66.,	0.
NODE,	98,	366.1,	107.5,	0.
NODE,	99,	366.1,	149.,	0.
NODE,	100,	366.1,	189.,	0.
NODE,	101,	366.1,	230.,	0.
NODE,	102,	366.1,	271.,	0.
NODE,	103,	366.1,	320.,	0.
NODE,	104,	366.1,	369.,	0.
NODE,	105,	366.1,	395.5,	0.
NODE,	106,	366.1,	422.,	0.
NODE,	107,	406.7,	0.,	0.
NODE,	108,	406.7,	33.,	0.
NODE,	109,	406.7,	66.,	0.
NODE,	110,	406.7,	107.5,	0.
NODE,	111,	406.7,	149.,	0.
NODE,	112,	406.7,	189.,	0.
NODE,	113,	406.7,	230.,	0.
NODE,	114,	406.7,	271.,	0.
NODE,	115,	406.7,	320.,	0.
NODE,	116,	406.7,	369.,	0.
NODE,	117,	406.7,	395.5,	0.
NODE,	118,	406.7,	422.,	0.
NODE,	119,	447.3,	0.,	0.
NODE,	120,	447.3,	33.,	0.

NODE,	121,	447.3,	66.,	0.
NODE,	122,	447.3,	107.5,	0.
NODE,	123,	447.3,	149.,	0.
NODE,	124,	447.3,	189.,	0.
NODE,	125,	447.3,	230.,	0.
NODE,	126,	447.3,	271.,	0.
NODE,	127,	447.3,	320.,	0.
NODE,	128,	447.3,	369.,	0.
NODE,	129,	447.3,	395.5,	0.
NODE,	130,	447.3,	422.,	0.
NODE,	131,	487.9,	0.,	0.
NODE,	132,	487.9,	33.,	0.
NODE,	133,	487.9,	66.,	0.
NODE,	134,	487.9,	107.5,	0.
NODE,	135,	487.9,	149.,	0.
NODE,	136,	487.9,	189.,	0.
NODE,	137,	487.9,	230.,	0.
NODE,	138,	487.9,	271.,	0.
NODE,	139,	487.9,	320.,	0.
NODE,	140,	487.9,	369.,	0.
NODE,	141,	487.9,	395.5,	0.
NODE,	142,	487.9,	422.,	0.
NODE,	143,	528.5,	0.,	0.
NODE,	144,	528.5,	33.,	0.
NODE,	145,	528.5,	66.,	0.
NODE,	146,	528.5,	107.5,	0.
NODE,	147,	528.5,	149.,	0.
NODE,	148,	528.5,	189.,	0.
NODE,	149,	528.5,	230.,	0.
NODE,	150,	528.5,	271.,	0.
NODE,	151,	528.5,	320.,	0.
NODE,	152,	528.5,	369.,	0.
NODE,	153,	528.5,	395.5,	0.
NODE,	154,	528.5,	422.,	0.
NODE,	155,	568.5,	0.,	0.
NODE,	156,	568.5,	33.,	0.
NODE,	157,	568.5,	66.,	0.
NODE,	158,	568.5,	107.5,	0.
NODE,	159,	568.5,	149.,	0.
NODE,	160,	568.5,	189.,	0.
NODE,	161,	568.5,	230.,	0.
NODE,	162,	568.5,	271.,	0.
NODE,	163,	568.5,	320.,	0.
NODE,	164,	568.5,	369.,	0.
NODE,	165,	568.5,	395.5,	0.
NODE,	166,	568.5,	422.,	0.
NODE,	167,	608.5,	0.,	0.
NODE,	168,	608.5,	33.,	0.
NODE,	169,	608.5,	66.,	0.
NODE,	170,	608.5,	107.5,	0.
NODE,	171,	608.5,	149.,	0.
NODE,	172,	608.5,	189.,	0.
NODE,	173,	608.5,	230.,	0.
NODE,	174,	608.5,	271.,	0.
NODE,	175,	608.5,	320.,	0.
NODE,	176,	608.5,	369.,	0.
NODE,	177,	608.5,	395.5,	0.
NODE,	178,	608.5,	422.,	0.
NODE,	179,	648.5,	0.,	0.
NODE,	180,	648.5,	33.,	0.
NODE,	181,	648.5,	66.,	0.
NODE,	182,	648.5,	107.5,	0.
NODE,	183,	648.5,	149.,	0.
NODE,	184,	648.5,	189.,	0.
NODE,	185,	648.5,	230.,	0.

NODE,	186,	648.5,	271.,	0.
NODE,	187,	648.5,	320.,	0.
NODE,	188,	648.5,	369.,	0.
NODE,	189,	648.5,	395.5,	0.
NODE,	190,	648.5,	422.,	0.
NODE,	191,	686.,	0.,	0.
NODE,	192,	686.,	33.,	0.
NODE,	193,	686.,	66.,	0.
NODE,	194,	686.,	107.5,	0.
NODE,	195,	686.,	149.,	0.
NODE,	196,	686.,	189.,	0.
NODE,	197,	686.,	230.,	0.
NODE,	198,	686.,	271.,	0.
NODE,	199,	686.,	320.,	0.
NODE,	200,	686.,	369.,	0.
NODE,	201,	686.,	395.5,	0.
NODE,	202,	686.,	422.,	0.
NODE,	203,	0.,	66.,	-68.
NODE,	204,	0.,	107.5,	-68.
NODE,	205,	0.,	149.,	-68.
NODE,	206,	0.,	369.,	-68.
NODE,	207,	0.,	395.5,	-68.
NODE,	208,	0.,	422.,	-68.
NODE,	209,	39.,	0.,	-68.
NODE,	210,	39.,	33.,	-68.
NODE,	211,	39.,	66.,	-68.
NODE,	212,	39.,	107.5,	-68.
NODE,	213,	39.,	149.,	-68.
NODE,	214,	39.,	369.,	-68.
NODE,	215,	39.,	395.5,	-68.
NODE,	216,	39.,	422.,	-68.
NODE,	217,	80.75,	0.,	-68.
NODE,	218,	80.75,	33.,	-68.
NODE,	219,	80.75,	66.,	-68.
NODE,	220,	80.75,	107.5,	-68.
NODE,	221,	80.75,	149.,	-68.
NODE,	222,	80.75,	369.,	-68.
NODE,	223,	80.75,	395.5,	-68.
NODE,	224,	80.75,	422.,	-68.
NODE,	225,	122.5,	0.,	-68.
NODE,	226,	122.5,	33.,	-68.
NODE,	227,	122.5,	66.,	-68.
NODE,	228,	122.5,	107.5,	-68.
NODE,	229,	122.5,	149.,	-68.
NODE,	230,	122.5,	189.,	-68.
NODE,	231,	122.5,	230.,	-68.
NODE,	232,	122.5,	271.,	-68.
NODE,	233,	122.5,	320.,	-68.
NODE,	234,	122.5,	369.,	-68.
NODE,	235,	122.5,	395.5,	-68.
NODE,	236,	122.5,	422.,	-68.
NODE,	237,	163.1,	0.,	-68.
NODE,	238,	163.1,	33.,	-68.
NODE,	239,	163.1,	66.,	-68.
NODE,	240,	163.1,	107.5,	-68.
NODE,	241,	163.1,	149.,	-68.
NODE,	242,	163.1,	189.,	-68.
NODE,	243,	163.1,	230.,	-68.
NODE,	244,	163.1,	271.,	-68.
NODE,	245,	163.1,	320.,	-68.
NODE,	246,	163.1,	369.,	-68.
NODE,	247,	163.1,	395.5,	-68.
NODE,	248,	163.1,	422.,	-68.
NODE,	249,	203.7,	0.,	-68.
NODE,	250,	203.7,	33.,	-68.



NODE,	251,	203.7,	66.,	-68.
NODE,	252,	203.7,	107.5,	-68.
NODE,	253,	203.7,	149.,	-68.
NODE,	254,	203.7,	189.,	-68.
NODE,	255,	203.7,	230.,	-68.
NODE,	256,	203.7,	271.,	-68.
NODE,	257,	203.7,	320.,	-68.
NODE,	258,	203.7,	369.,	-68.
NODE,	259,	203.7,	395.5,	-68.
NODE,	260,	203.7,	422.,	-68.
NODE,	261,	244.3,	0.,	-68.
NODE,	262,	244.3,	33.,	-68.
NODE,	263,	244.3,	66.,	-68.
NODE,	264,	244.3,	107.5,	-68.
NODE,	265,	244.3,	149.,	-68.
NODE,	266,	244.3,	189.,	-68.
NODE,	267,	244.3,	230.,	-68.
NODE,	268,	244.3,	271.,	-68.
NODE,	269,	244.3,	320.,	-68.
NODE,	270,	244.3,	369.,	-68.
NODE,	271,	244.3,	395.5,	-68.
NODE,	272,	244.3,	422.,	-68.
NODE,	273,	284.9,	0.,	-68.
NODE,	274,	284.9,	33.,	-68.
NODE,	275,	284.9,	66.,	-68.
NODE,	276,	284.9,	107.5,	-68.
NODE,	277,	284.9,	149.,	-68.
NODE,	278,	284.9,	189.,	-68.
NODE,	279,	284.9,	230.,	-68.
NODE,	280,	284.9,	271.,	-68.
NODE,	281,	284.9,	320.,	-68.
NODE,	282,	284.9,	369.,	-68.
NODE,	283,	284.9,	395.5,	-68.
NODE,	284,	284.9,	422.,	-68.
NODE,	285,	325.5,	0.,	-68.
NODE,	286,	325.5,	33.,	-68.
NODE,	287,	325.5,	66.,	-68.
NODE,	288,	325.5,	107.5,	-68.
NODE,	289,	325.5,	149.,	-68.
NODE,	290,	325.5,	189.,	-68.
NODE,	291,	325.5,	230.,	-68.
NODE,	292,	325.5,	271.,	-68.
NODE,	293,	325.5,	320.,	-68.
NODE,	294,	325.5,	369.,	-68.
NODE,	295,	325.5,	395.5,	-68.
NODE,	296,	325.5,	422.,	-68.
NODE,	297,	366.1,	0.,	-68.
NODE,	298,	366.1,	33.,	-68.
NODE,	299,	366.1,	66.,	-68.
NODE,	300,	366.1,	107.5,	-68.
NODE,	301,	366.1,	149.,	-68.
NODE,	302,	366.1,	189.,	-68.
NODE,	303,	366.1,	230.,	-68.
NODE,	304,	366.1,	271.,	-68.
NODE,	305,	366.1,	320.,	-68.
NODE,	306,	366.1,	369.,	-68.
NODE,	307,	366.1,	395.5,	-68.
NODE,	308,	366.1,	422.,	-68.
NODE,	309,	406.7,	0.,	-68.
NODE,	310,	406.7,	33.,	-68.
NODE,	311,	406.7,	66.,	-68.
NODE,	312,	406.7,	107.5,	-68.
NODE,	313,	406.7,	149.,	-68.
NODE,	314,	406.7,	189.,	-68.
NODE,	315,	406.7,	230.,	-68.

NODE,	316,	406.7,	271.,	-68.
NODE,	317,	406.7,	320.,	-68.
NODE,	318,	406.7,	369.,	-68.
NODE,	319,	406.7,	395.5,	-68.
NODE,	320,	406.7,	422.,	-68.
NODE,	321,	447.3,	0.,	-68.
NODE,	322,	447.3,	33.,	-68.
NODE,	323,	447.3,	66.,	-68.
NODE,	324,	447.3,	107.5,	-68.
NODE,	325,	447.3,	149.,	-68.
NODE,	326,	447.3,	189.,	-68.
NODE,	327,	447.3,	230.,	-68.
NODE,	328,	447.3,	271.,	-68.
NODE,	329,	447.3,	320.,	-68.
NODE,	330,	447.3,	369.,	-68.
NODE,	331,	447.3,	395.5,	-68.
NODE,	332,	447.3,	422.,	-68.
NODE,	333,	487.9,	0.,	-68.
NODE,	334,	487.9,	33.,	-68.
NODE,	335,	487.9,	66.,	-68.
NODE,	336,	487.9,	107.5,	-68.
NODE,	337,	487.9,	149.,	-68.
NODE,	338,	487.9,	189.,	-68.
NODE,	339,	487.9,	230.,	-68.
NODE,	340,	487.9,	271.,	-68.
NODE,	341,	487.9,	320.,	-68.
NODE,	342,	487.9,	369.,	-68.
NODE,	343,	487.9,	395.5,	-68.
NODE,	344,	487.9,	422.,	-68.
NODE,	345,	528.5,	0.,	-68.
NODE,	346,	528.5,	33.,	-68.
NODE,	347,	528.5,	66.,	-68.
NODE,	348,	528.5,	107.5,	-68.
NODE,	349,	528.5,	149.,	-68.
NODE,	350,	528.5,	189.,	-68.
NODE,	351,	528.5,	230.,	-68.
NODE,	352,	528.5,	271.,	-68.
NODE,	353,	528.5,	320.,	-68.
NODE,	354,	528.5,	369.,	-68.
NODE,	355,	528.5,	395.5,	-68.
NODE,	356,	528.5,	422.,	-68.
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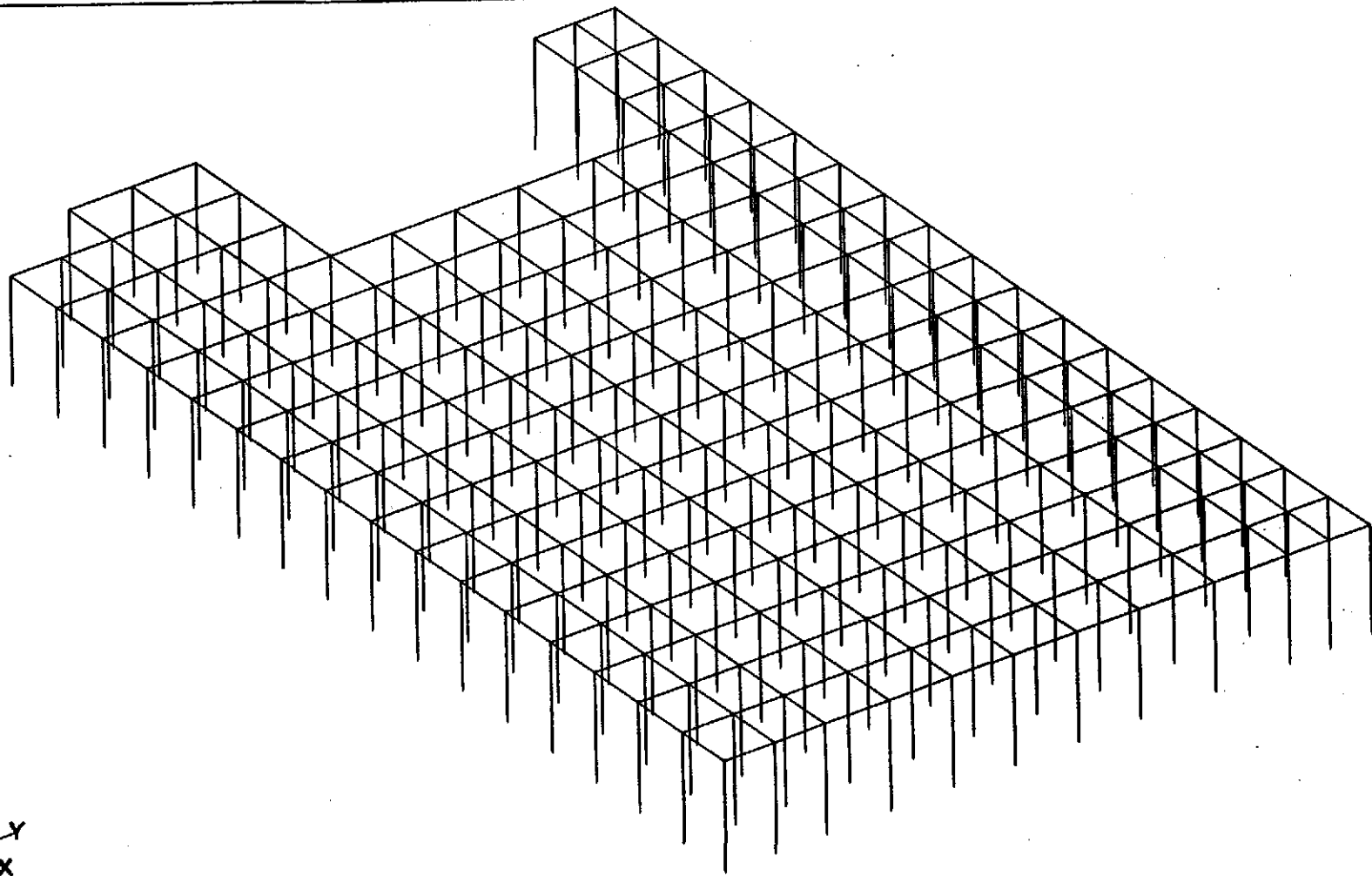
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 OPTION            0           1           0  
 OUTPUT            1       111           2  
 TAPE4G            1       25  
 TITLE1 LIGO PROJECT  
 TITLE2 END-PB1 MODEL  
 TITLE3 WRITTEN BY FEMAP VERSION 4.30  
 TITLE4 BY P B M  
 TITLE5 08/24/95  
 ENDMODEL

40   150.   0.  
       0   66 0 00

END-PB1 MODEL T = 36 INCHES

(FILE: ENDPB36.SDN)

V1  
C1



(FILE: ENDPB36.SDN)

MODE NUMBER	FREQUENCY (CPS)	GENERALIZED WEIGHT	DAMPING	PARTICIPATION FACTORS		
				X1	X2	X3
1	0.143108E+02	0.623000E+06	0.7248	0.210039E-01	0.116860E+01	-0.126716E+00
2	0.147936E+02	0.101589E+07	0.7242	0.911037E+00	-0.544443E-01	-0.226347E+00
3	0.158828E+02	0.466564E+06	0.6528	0.488137E+00	0.211040E+00	0.120587E+01
4	0.174068E+02	0.250444E+06	0.7100	-0.115497E+00	0.473507E+00	0.249971E-01
5	0.198370E+02	0.329519E+06	0.6885	-0.280979E+00	-0.135782E+00	0.749713E+00
6	0.218856E+02	0.180558E+06	0.7070	0.130000E+00	-0.538025E+00	0.152231E+00
7	0.243924E+02	0.728417E+05	0.5956	-0.609398E-01	-0.135116E-01	0.221304E+00
8	0.260330E+02	0.981627E+05	0.5709	0.316024E-01	0.927208E-01	0.599617E+00
9	0.327038E+02	0.585607E+05	0.4257	0.109119E+00	0.101142E-01	0.321280E+00
10	0.336141E+02	0.104447E+06	0.3891	0.289291E-01	0.108960E-01	0.382268E+00
11	0.353134E+02	0.238632E+05	0.4004	-0.346296E+00	-0.527327E-01	0.882853E-01
12	0.407832E+02	0.540031E+05	0.2944	-0.613734E-01	0.701078E-01	0.752682E-01
13	0.459351E+02	0.453072E+05	0.2538	-0.110291E-01	-0.218007E-01	0.101527E-01
14	0.490656E+02	0.894260E+04	0.2009	0.574649E-01	0.155853E+00	-0.248913E-02
15	0.511023E+02	0.288482E+05	0.1929	-0.266985E-02	0.575021E-01	0.161578E+00
16	0.590613E+02	0.476842E+05	0.1648	-0.117896E-01	0.491876E-01	0.189914E-01
17	0.651778E+02	0.358946E+05	0.1232	0.140478E-01	-0.273264E-01	-0.902608E-02
18	0.659368E+02	0.526480E+05	0.0971	0.930099E-02	0.260480E-01	-0.292810E-02
19	0.701984E+02	0.525344E+05	0.1303	-0.779422E-02	-0.810385E-01	-0.125076E-01
20	0.738910E+02	0.444545E+05	0.1280	-0.971242E-02	-0.749599E-01	0.726439E-02
21	0.826773E+02	0.256022E+06	0.0393	0.196774E-01	0.746195E-02	-0.115075E-03
22	0.856096E+02	0.102167E+06	0.0894	-0.171854E-01	0.613850E-02	-0.579361E-02
23	0.877674E+02	0.755974E+05	0.0645	0.480088E-02	-0.345642E-02	0.202280E-02
24	0.880082E+02	0.603853E+05	0.0964	-0.165960E-01	-0.790047E-02	0.528824E-02
25	0.915276E+02	0.231044E+06	0.0391	0.995070E-02	-0.126045E-01	-0.524442E-04
26	0.947370E+02	0.497132E+05	0.0864	-0.356890E-02	-0.891079E-02	-0.221631E-02
27	0.102337E+03	0.857231E+05	0.0803	-0.857266E-02	-0.955154E-02	0.287238E-02
28	0.111673E+03	0.234066E+05	0.0774	0.923418E-02	0.178535E-01	-0.290819E-02
29	0.116193E+03	0.136592E+06	0.0355	0.923847E-02	-0.637029E-02	0.731376E-05
30	0.121611E+03	0.280063E+06	0.0313	0.325900E-02	0.644838E-02	0.837883E-04
31	0.127614E+03	0.733248E+05	0.0610	0.681832E-02	-0.126696E-02	0.103239E-02
32	0.130111E+03	0.439408E+05	0.0731	0.572786E-02	0.118581E-01	0.743162E-02
33	0.132730E+03	0.840565E+05	0.0352	-0.340148E-02	0.477080E-03	-0.351806E-03
34	0.133838E+03	0.561114E+05	0.0586	-0.508979E-02	-0.165303E-02	0.614142E-02
35	0.137952E+03	0.101489E+06	0.0326	-0.456206E-02	0.494521E-03	-0.176360E-02
36	0.138382E+03	0.902331E+05	0.0586	-0.320263E-02	0.819875E-02	0.106880E-01
37	0.144430E+03	0.396166E+05	0.0578	0.561635E-02	-0.357699E-02	0.599111E-02
38	0.146305E+03	0.468227E+05	0.0572	-0.122606E-02	-0.135105E-01	0.285314E-02
39	0.146685E+03	0.184129E+06	0.0321	0.162495E-02	-0.712818E-03	-0.921802E-03

START 386.4 \*\*\*\*\*X  
 \*\*\*\*\*X  
 Written by : FEMAP X  
 Version : 4.30 X  
 From Model :LIGO END-PB1 T=36 INCHES X  
 Date : Thu Aug 24 13:40:08 1995 X  
 \*\*\*\*\*

MATLG,1,SOIL 1 - G,8354.,0.37,0.,0.,0.736,  
 MATLG,2,CONC 1 - G,3600001.,0.15,0.091627,0.,0.02,

END

NODE, 1,	0.,	66.,	0.
NODE, 2,	0.,	107.5,	0.
NODE, 3,	0.,	149.,	0.
NODE, 4,	0.,	369.,	0.
NODE, 5,	0.,	395.5,	0.
NODE, 6,	0.,	422.,	0.
NODE, 7,	39.,	0.,	0.
NODE, 8,	39.,	33.,	0.
NODE, 9,	39.,	66.,	0.
NODE, 10,	39.,	107.5,	0.
NODE, 11,	39.,	149.,	0.
NODE, 12,	39.,	369.,	0.
NODE, 13,	39.,	395.5,	0.
NODE, 14,	39.,	422.,	0.
NODE, 15,	80.75,	0.,	0.
NODE, 16,	80.75,	33.,	0.
NODE, 17,	80.75,	66.,	0.
NODE, 18,	80.75,	107.5,	0.
NODE, 19,	80.75,	149.,	0.
NODE, 20,	80.75,	369.,	0.
NODE, 21,	80.75,	395.5,	0.
NODE, 22,	80.75,	422.,	0.
NODE, 23,	122.5,	0.,	0.
NODE, 24,	122.5,	33.,	0.
NODE, 25,	122.5,	66.,	0.
NODE, 26,	122.5,	107.5,	0.
NODE, 27,	122.5,	149.,	0.
NODE, 28,	122.5,	189.,	0.
NODE, 29,	122.5,	230.,	0.
NODE, 30,	122.5,	271.,	0.
NODE, 31,	122.5,	320.,	0.
NODE, 32,	122.5,	369.,	0.
NODE, 33,	122.5,	395.5,	0.
NODE, 34,	122.5,	422.,	0.
NODE, 35,	163.1,	0.,	0.
NODE, 36,	163.1,	33.,	0.
NODE, 37,	163.1,	66.,	0.
NODE, 38,	163.1,	107.5,	0.
NODE, 39,	163.1,	149.,	0.
NODE, 40,	163.1,	189.,	0.
NODE, 41,	163.1,	230.,	0.
NODE, 42,	163.1,	271.,	0.
NODE, 43,	163.1,	320.,	0.
NODE, 44,	163.1,	369.,	0.
NODE, 45,	163.1,	395.5,	0.
NODE, 46,	163.1,	422.,	0.
NODE, 47,	203.7,	0.,	0.
NODE, 48,	203.7,	33.,	0.
NODE, 49,	203.7,	66.,	0.
NODE, 50,	203.7,	107.5,	0.
NODE, 51,	203.7,	149.,	0.
NODE, 52,	203.7,	189.,	0.
NODE, 53,	203.7,	230.,	0.
NODE, 54,	203.7,	271.,	0.
NODE, 55,	203.7,	320.,	0.



NODE,	56,	203.7,	369.,	0.
NODE,	57,	203.7,	395.5,	0.
NODE,	58,	203.7,	422.,	0.
NODE,	59,	244.3,	0.,	0.
NODE,	60,	244.3,	33.,	0.
NODE,	61,	244.3,	66.,	0.
NODE,	62,	244.3,	107.5,	0.
NODE,	63,	244.3,	149.,	0.
NODE,	64,	244.3,	189.,	0.
NODE,	65,	244.3,	230.,	0.
NODE,	66,	244.3,	271.,	0.
NODE,	67,	244.3,	320.,	0.
NODE,	68,	244.3,	369.,	0.
NODE,	69,	244.3,	395.5,	0.
NODE,	70,	244.3,	422.,	0.
NODE,	71,	284.9,	0.,	0.
NODE,	72,	284.9,	33.,	0.
NODE,	73,	284.9,	66.,	0.
NODE,	74,	284.9,	107.5,	0.
NODE,	75,	284.9,	149.,	0.
NODE,	76,	284.9,	189.,	0.
NODE,	77,	284.9,	230.,	0.
NODE,	78,	284.9,	271.,	0.
NODE,	79,	284.9,	320.,	0.
NODE,	80,	284.9,	369.,	0.
NODE,	81,	284.9,	395.5,	0.
NODE,	82,	284.9,	422.,	0.
NODE,	83,	325.5,	0.,	0.
NODE,	84,	325.5,	33.,	0.
NODE,	85,	325.5,	66.,	0.
NODE,	86,	325.5,	107.5,	0.
NODE,	87,	325.5,	149.,	0.
NODE,	88,	325.5,	189.,	0.
NODE,	89,	325.5,	230.,	0.
NODE,	90,	325.5,	271.,	0.
NODE,	91,	325.5,	320.,	0.
NODE,	92,	325.5,	369.,	0.
NODE,	93,	325.5,	395.5,	0.
NODE,	94,	325.5,	422.,	0.
NODE,	95,	366.1,	0.,	0.
NODE,	96,	366.1,	33.,	0.
NODE,	97,	366.1,	66.,	0.
NODE,	98,	366.1,	107.5,	0.
NODE,	99,	366.1,	149.,	0.
NODE,	100,	366.1,	189.,	0.
NODE,	101,	366.1,	230.,	0.
NODE,	102,	366.1,	271.,	0.
NODE,	103,	366.1,	320.,	0.
NODE,	104,	366.1,	369.,	0.
NODE,	105,	366.1,	395.5,	0.
NODE,	106,	366.1,	422.,	0.
NODE,	107,	406.7,	0.,	0.
NODE,	108,	406.7,	33.,	0.
NODE,	109,	406.7,	66.,	0.
NODE,	110,	406.7,	107.5,	0.
NODE,	111,	406.7,	149.,	0.
NODE,	112,	406.7,	189.,	0.
NODE,	113,	406.7,	230.,	0.
NODE,	114,	406.7,	271.,	0.
NODE,	115,	406.7,	320.,	0.
NODE,	116,	406.7,	369.,	0.
NODE,	117,	406.7,	395.5,	0.
NODE,	118,	406.7,	422.,	0.
NODE,	119,	447.3,	0.,	0.
NODE,	120,	447.3,	33.,	0.

NODE,	121,	447.3,	66.,	0.
NODE,	122,	447.3,	107.5,	0.
NODE,	123,	447.3,	149.,	0.
NODE,	124,	447.3,	189.,	0.
NODE,	125,	447.3,	230.,	0.
NODE,	126,	447.3,	271.,	0.
NODE,	127,	447.3,	320.,	0.
NODE,	128,	447.3,	369.,	0.
NODE,	129,	447.3,	395.5,	0.
NODE,	130,	447.3,	422.,	0.
NODE,	131,	487.9,	0.,	0.
NODE,	132,	487.9,	33.,	0.
NODE,	133,	487.9,	66.,	0.
NODE,	134,	487.9,	107.5,	0.
NODE,	135,	487.9,	149.,	0.
NODE,	136,	487.9,	189.,	0.
NODE,	137,	487.9,	230.,	0.
NODE,	138,	487.9,	271.,	0.
NODE,	139,	487.9,	320.,	0.
NODE,	140,	487.9,	369.,	0.
NODE,	141,	487.9,	395.5,	0.
NODE,	142,	487.9,	422.,	0.
NODE,	143,	528.5,	0.,	0.
NODE,	144,	528.5,	33.,	0.
NODE,	145,	528.5,	66.,	0.
NODE,	146,	528.5,	107.5,	0.
NODE,	147,	528.5,	149.,	0.
NODE,	148,	528.5,	189.,	0.
NODE,	149,	528.5,	230.,	0.
NODE,	150,	528.5,	271.,	0.
NODE,	151,	528.5,	320.,	0.
NODE,	152,	528.5,	369.,	0.
NODE,	153,	528.5,	395.5,	0.
NODE,	154,	528.5,	422.,	0.
NODE,	155,	568.5,	0.,	0.
NODE,	156,	568.5,	33.,	0.
NODE,	157,	568.5,	66.,	0.
NODE,	158,	568.5,	107.5,	0.
NODE,	159,	568.5,	149.,	0.
NODE,	160,	568.5,	189.,	0.
NODE,	161,	568.5,	230.,	0.
NODE,	162,	568.5,	271.,	0.
NODE,	163,	568.5,	320.,	0.
NODE,	164,	568.5,	369.,	0.
NODE,	165,	568.5,	395.5,	0.
NODE,	166,	568.5,	422.,	0.
NODE,	167,	608.5,	0.,	0.
NODE,	168,	608.5,	33.,	0.
NODE,	169,	608.5,	66.,	0.
NODE,	170,	608.5,	107.5,	0.
NODE,	171,	608.5,	149.,	0.
NODE,	172,	608.5,	189.,	0.
NODE,	173,	608.5,	230.,	0.
NODE,	174,	608.5,	271.,	0.
NODE,	175,	608.5,	320.,	0.
NODE,	176,	608.5,	369.,	0.
NODE,	177,	608.5,	395.5,	0.
NODE,	178,	608.5,	422.,	0.
NODE,	179,	648.5,	0.,	0.
NODE,	180,	648.5,	33.,	0.
NODE,	181,	648.5,	66.,	0.
NODE,	182,	648.5,	107.5,	0.
NODE,	183,	648.5,	149.,	0.
NODE,	184,	648.5,	189.,	0.
NODE,	185,	648.5,	230.,	0.

NODE,	186,	648.5,	271.,	0.
NODE,	187,	648.5,	320.,	0.
NODE,	188,	648.5,	369.,	0.
NODE,	189,	648.5,	395.5,	0.
NODE,	190,	648.5,	422.,	0.
NODE,	191,	686.,	0.,	0.
NODE,	192,	686.,	33.,	0.
NODE,	193,	686.,	66.,	0.
NODE,	194,	686.,	107.5,	0.
NODE,	195,	686.,	149.,	0.
NODE,	196,	686.,	189.,	0.
NODE,	197,	686.,	230.,	0.
NODE,	198,	686.,	271.,	0.
NODE,	199,	686.,	320.,	0.
NODE,	200,	686.,	369.,	0.
NODE,	201,	686.,	395.5,	0.
NODE,	202,	686.,	422.,	0.
NODE,	203,	0.,	66.,	-68.
NODE,	204,	0.,	107.5,	-68.
NODE,	205,	0.,	149.,	-68.
NODE,	206,	0.,	369.,	-68.
NODE,	207,	0.,	395.5,	-68.
NODE,	208,	0.,	422.,	-68.
NODE,	209,	39.,	0.,	-68.
NODE,	210,	39.,	33.,	-68.
NODE,	211,	39.,	66.,	-68.
NODE,	212,	39.,	107.5,	-68.
NODE,	213,	39.,	149.,	-68.
NODE,	214,	39.,	369.,	-68.
NODE,	215,	39.,	395.5,	-68.
NODE,	216,	39.,	422.,	-68.
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NODE,	218,	80.75,	33.,	-68.
NODE,	219,	80.75,	66.,	-68.
NODE,	220,	80.75,	107.5,	-68.
NODE,	221,	80.75,	149.,	-68.
NODE,	222,	80.75,	369.,	-68.
NODE,	223,	80.75,	395.5,	-68.
NODE,	224,	80.75,	422.,	-68.
NODE,	225,	122.5,	0.,	-68.
NODE,	226,	122.5,	33.,	-68.
NODE,	227,	122.5,	66.,	-68.
NODE,	228,	122.5,	107.5,	-68.
NODE,	229,	122.5,	149.,	-68.
NODE,	230,	122.5,	189.,	-68.
NODE,	231,	122.5,	230.,	-68.
NODE,	232,	122.5,	271.,	-68.
NODE,	233,	122.5,	320.,	-68.
NODE,	234,	122.5,	369.,	-68.
NODE,	235,	122.5,	395.5,	-68.
NODE,	236,	122.5,	422.,	-68.
NODE,	237,	163.1,	0.,	-68.
NODE,	238,	163.1,	33.,	-68.
NODE,	239,	163.1,	66.,	-68.
NODE,	240,	163.1,	107.5,	-68.
NODE,	241,	163.1,	149.,	-68.
NODE,	242,	163.1,	189.,	-68.
NODE,	243,	163.1,	230.,	-68.
NODE,	244,	163.1,	271.,	-68.
NODE,	245,	163.1,	320.,	-68.
NODE,	246,	163.1,	369.,	-68.
NODE,	247,	163.1,	395.5,	-68.
NODE,	248,	163.1,	422.,	-68.
NODE,	249,	203.7,	0.,	-68.
NODE,	250,	203.7,	33.,	-68.

NODE,	251,	203.7,	66.,	-68.
NODE,	252,	203.7,	107.5,	-68.
NODE,	253,	203.7,	149.,	-68.
NODE,	254,	203.7,	189.,	-68.
NODE,	255,	203.7,	230.,	-68.
NODE,	256,	203.7,	271.,	-68.
NODE,	257,	203.7,	320.,	-68.
NODE,	258,	203.7,	369.,	-68.
NODE,	259,	203.7,	395.5,	-68.
NODE,	260,	203.7,	422.,	-68.
NODE,	261,	244.3,	0.,	-68.
NODE,	262,	244.3,	33.,	-68.
NODE,	263,	244.3,	66.,	-68.
NODE,	264,	244.3,	107.5,	-68.
NODE,	265,	244.3,	149.,	-68.
NODE,	266,	244.3,	189.,	-68.
NODE,	267,	244.3,	230.,	-68.
NODE,	268,	244.3,	271.,	-68.
NODE,	269,	244.3,	320.,	-68.
NODE,	270,	244.3,	369.,	-68.
NODE,	271,	244.3,	395.5,	-68.
NODE,	272,	244.3,	422.,	-68.
NODE,	273,	284.9,	0.,	-68.
NODE,	274,	284.9,	33.,	-68.
NODE,	275,	284.9,	66.,	-68.
NODE,	276,	284.9,	107.5,	-68.
NODE,	277,	284.9,	149.,	-68.
NODE,	278,	284.9,	189.,	-68.
NODE,	279,	284.9,	230.,	-68.
NODE,	280,	284.9,	271.,	-68.
NODE,	281,	284.9,	320.,	-68.
NODE,	282,	284.9,	369.,	-68.
NODE,	283,	284.9,	395.5,	-68.
NODE,	284,	284.9,	422.,	-68.
NODE,	285,	325.5,	0.,	-68.
NODE,	286,	325.5,	33.,	-68.
NODE,	287,	325.5,	66.,	-68.
NODE,	288,	325.5,	107.5,	-68.
NODE,	289,	325.5,	149.,	-68.
NODE,	290,	325.5,	189.,	-68.
NODE,	291,	325.5,	230.,	-68.
NODE,	292,	325.5,	271.,	-68.
NODE,	293,	325.5,	320.,	-68.
NODE,	294,	325.5,	369.,	-68.
NODE,	295,	325.5,	395.5,	-68.
NODE,	296,	325.5,	422.,	-68.
NODE,	297,	366.1,	0.,	-68.
NODE,	298,	366.1,	33.,	-68.
NODE,	299,	366.1,	66.,	-68.
NODE,	300,	366.1,	107.5,	-68.
NODE,	301,	366.1,	149.,	-68.
NODE,	302,	366.1,	189.,	-68.
NODE,	303,	366.1,	230.,	-68.
NODE,	304,	366.1,	271.,	-68.
NODE,	305,	366.1,	320.,	-68.
NODE,	306,	366.1,	369.,	-68.
NODE,	307,	366.1,	395.5,	-68.
NODE,	308,	366.1,	422.,	-68.
NODE,	309,	406.7,	0.,	-68.
NODE,	310,	406.7,	33.,	-68.
NODE,	311,	406.7,	66.,	-68.
NODE,	312,	406.7,	107.5,	-68.
NODE,	313,	406.7,	149.,	-68.
NODE,	314,	406.7,	189.,	-68.
NODE,	315,	406.7,	230.,	-68.

NODE,	316,	406.7,	271.,	-68.
NODE,	317,	406.7,	320.,	-68.
NODE,	318,	406.7,	369.,	-68.
NODE,	319,	406.7,	395.5,	-68.
NODE,	320,	406.7,	422.,	-68.
NODE,	321,	447.3,	0.,	-68.
NODE,	322,	447.3,	33.,	-68.
NODE,	323,	447.3,	66.,	-68.
NODE,	324,	447.3,	107.5,	-68.
NODE,	325,	447.3,	149.,	-68.
NODE,	326,	447.3,	189.,	-68.
NODE,	327,	447.3,	230.,	-68.
NODE,	328,	447.3,	271.,	-68.
NODE,	329,	447.3,	320.,	-68.
NODE,	330,	447.3,	369.,	-68.
NODE,	331,	447.3,	395.5,	-68.
NODE,	332,	447.3,	422.,	-68.
NODE,	333,	487.9,	0.,	-68.
NODE,	334,	487.9,	33.,	-68.
NODE,	335,	487.9,	66.,	-68.
NODE,	336,	487.9,	107.5,	-68.
NODE,	337,	487.9,	149.,	-68.
NODE,	338,	487.9,	189.,	-68.
NODE,	339,	487.9,	230.,	-68.
NODE,	340,	487.9,	271.,	-68.
NODE,	341,	487.9,	320.,	-68.
NODE,	342,	487.9,	369.,	-68.
NODE,	343,	487.9,	395.5,	-68.
NODE,	344,	487.9,	422.,	-68.
NODE,	345,	528.5,	0.,	-68.
NODE,	346,	528.5,	33.,	-68.
NODE,	347,	528.5,	66.,	-68.
NODE,	348,	528.5,	107.5,	-68.
NODE,	349,	528.5,	149.,	-68.
NODE,	350,	528.5,	189.,	-68.
NODE,	351,	528.5,	230.,	-68.
NODE,	352,	528.5,	271.,	-68.
NODE,	353,	528.5,	320.,	-68.
NODE,	354,	528.5,	369.,	-68.
NODE,	355,	528.5,	395.5,	-68.
NODE,	356,	528.5,	422.,	-68.
NODE,	357,	568.5,	0.,	-68.
NODE,	358,	568.5,	33.,	-68.
NODE,	359,	568.5,	66.,	-68.
NODE,	360,	568.5,	107.5,	-68.
NODE,	361,	568.5,	149.,	-68.
NODE,	362,	568.5,	189.,	-68.
NODE,	363,	568.5,	230.,	-68.
NODE,	364,	568.5,	271.,	-68.
NODE,	365,	568.5,	320.,	-68.
NODE,	366,	568.5,	369.,	-68.
NODE,	367,	568.5,	395.5,	-68.
NODE,	368,	568.5,	422.,	-68.
NODE,	369,	608.5,	0.,	-68.
NODE,	370,	608.5,	33.,	-68.
NODE,	371,	608.5,	66.,	-68.
NODE,	372,	608.5,	107.5,	-68.
NODE,	373,	608.5,	149.,	-68.
NODE,	374,	608.5,	189.,	-68.
NODE,	375,	608.5,	230.,	-68.
NODE,	376,	608.5,	271.,	-68.
NODE,	377,	608.5,	320.,	-68.
NODE,	378,	608.5,	369.,	-68.
NODE,	379,	608.5,	395.5,	-68.
NODE,	380,	608.5,	422.,	-68.

NODE,	381,	648.5,	0.,	-68.
NODE,	382,	648.5,	33.,	-68.
NODE,	383,	648.5,	66.,	-68.
NODE,	384,	648.5,	107.5,	-68.
NODE,	385,	648.5,	149.,	-68.
NODE,	386,	648.5,	189.,	-68.
NODE,	387,	648.5,	230.,	-68.
NODE,	388,	648.5,	271.,	-68.
NODE,	389,	648.5,	320.,	-68.
NODE,	390,	648.5,	369.,	-68.
NODE,	391,	648.5,	395.5,	-68.
NODE,	392,	648.5,	422.,	-68.
NODE,	393,	686.,	0.,	-68.
NODE,	394,	686.,	33.,	-68.
NODE,	395,	686.,	66.,	-68.
NODE,	396,	686.,	107.5,	-68.
NODE,	397,	686.,	149.,	-68.
NODE,	398,	686.,	189.,	-68.
NODE,	399,	686.,	230.,	-68.
NODE,	400,	686.,	271.,	-68.
NODE,	401,	686.,	320.,	-68.
NODE,	402,	686.,	369.,	-68.
NODE,	403,	686.,	395.5,	-68.
NODE,	404,	686.,	422.,	-68.

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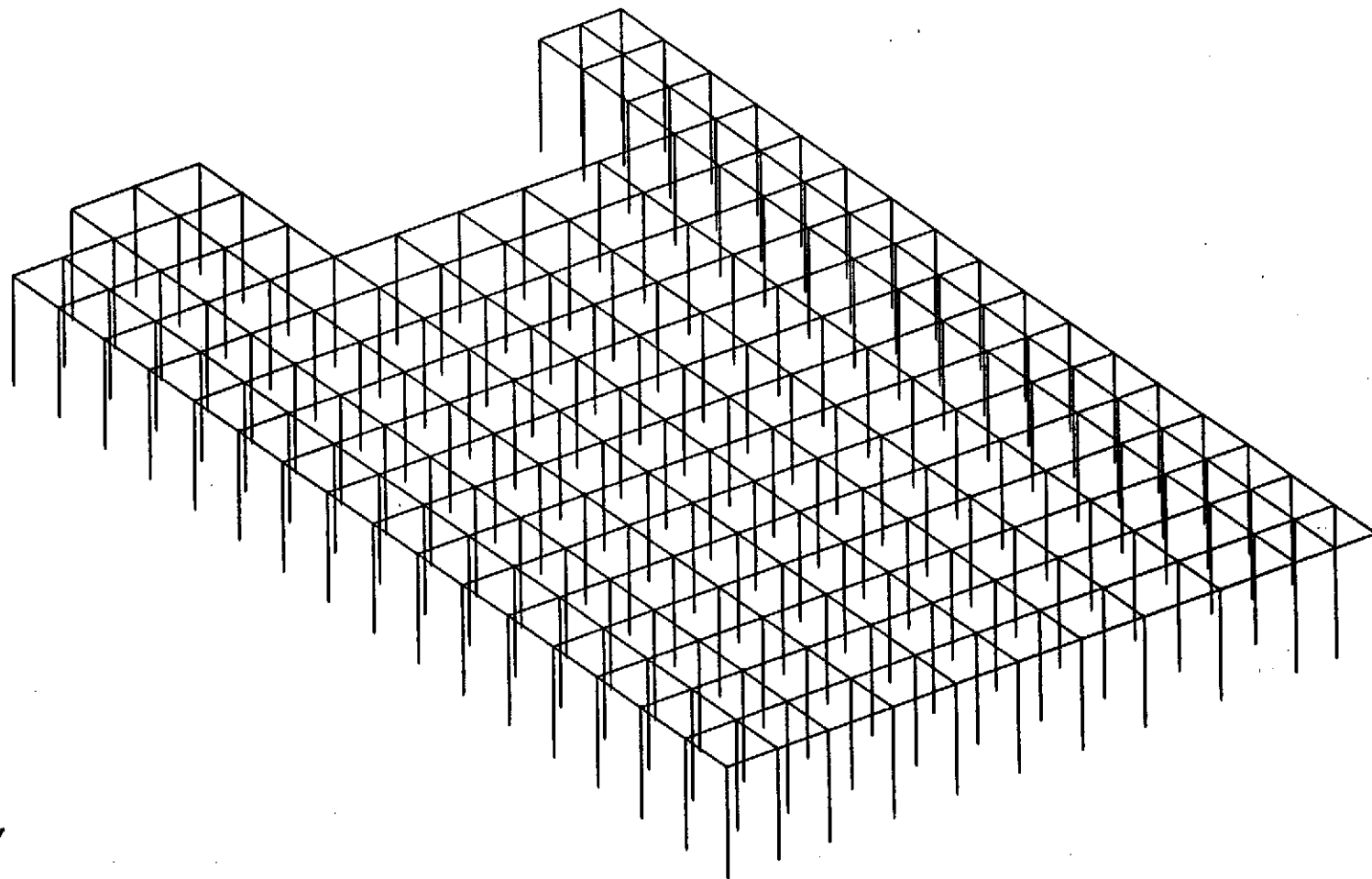
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OUTPUT           1       111                   2  
TAPE4G           1       25  
TITLE1 LIGO PROJECT  
TITLE2 END-PB1 MODEL  
TITLE3 WRITTEN BY FEMAP VERSION 4.30  
TITLE4 BY P B M  
          5 08/24/95  
ENDMODEL

END-PB1 MODEL T = 18 INCHES

(FILE: ENDPB18.SDN)



V1  
C1



(FILE: ENDPB18.SON)

END-PB1 MODEL T-18 INCHES

--- MODAL WEIGHTS ---

MODE NO	EIGENVALUE ( OMEGA**2 )	NATURAL FREQUENCY	GENERALIZED WEIGHT	(GEN. WGT. * PARTICIPATION FACTORS**2)		
				X1	X2	X3
1	7894.08	14.141	171966.	4.23129	55.68459	257927.22962
2	12667.4	17.913	341950.	11002.17502	497406.67526	298.01789
3	14216.1	18.976	524649.	551595.15461	16579.27841	205.47427
4	20594.7	22.840	133993.	8202.60516	50643.33515	2.37558
5	25272.8	25.302	122916.	2071.78865	148.46592	213287.35159
6	31307.3	28.161	106427.	1795.54038	9500.43814	16614.65823
7	33630.0	29.187	82622.5	303.66886	1351.54983	3056.87024
8	36206.4	30.284	71051.3	1214.79938	981.60754	34650.49283
9	44621.4	33.620	37910.6	4798.72851	279.24775	5400.30131
10	45389.1	33.908	53547.7	209.48142	122.10411	32023.87234
11	49723.7	35.490	53580.3	1098.22532	51.25694	15319.14821
12	55474.3	37.486	41257.0	591.97483	1150.38177	395.03262
13	58417.1	38.467	45239.1	83.82805	246.65226	629.98823
14	71599.3	42.587	14306.4	80.80526	298.95901	4534.67321
15	78477.1	44.585	44338.6	138.99174	983.91127	96.85636
16	81872.7	45.540	23067.0	11.45392	237.81766	141.77940
17	96098.1	49.338	14668.0	0.55731	1479.04133	80.68637
18	97959.2	49.813	11913.6	78.83508	214.23932	4.72329
19	103904.	51.302	12630.4	31.53404	1932.61720	11.85218
20	115204.	54.020	48190.7	312.79182	21.46991	4.65088
21	127078.	56.736	29536.6	168.96697	47.86140	43.40379
22	137789.	59.078	27459.7	10.91669	12.25457	83.49551
23	150986.	61.843	44679.4	21.31816	5.39536	26.89297
24	171328.	65.877	34621.1	354.07586	364.09764	2.16801
25	178979.	67.332	13027.1	6.48583	20.90937	3.55314
26	201448.	71.433	88150.0	694.78350	67.47294	0.33730
27	207674.	72.529	34096.6	21.30531	0.09624	25.59330
28	220561.	74.745	36324.9	7.90786	3.16503	25.36292
29	230734.	76.450	28922.4	51.29433	36.99990	66.36490
30	244803.	78.746	59630.8	3.76043	65.34313	318.49893
31	250265.	79.620	247189.	118.48650	360.42588	1.87565
32	260353.	81.208	23036.4	71.28083	5.86203	12.22021
33	274543.	83.392	37646.7	0.00028	48.40054	0.00923
34	303256.	87.645	35914.5	4.81305	1.91629	0.26217
35	315096.	89.339	26328.5	57.45761	29.29991	4.25058
36	343573.	93.289	32903.3	3.08259	28.03504	1.76688
37	372428.	97.127	16298.8	0.01718	1.11292	22.79276
38	394805.	100.003	27610.3	12.68035	22.38533	2.06787
39	404534.	101.227	11535.0	11.25343	2.64302	0.00587
40	444404.	106.099	11737.4	2.65334	6.74042	0.15212
41	465883.	108.632	82604.9	12.71321	40.89584	0.02643
42	470600.	109.181	23884.8	5.16018	57.15440	0.44240
43	487561.	111.131	12151.6	3.96921	249.78043	1.09931
44	506029.	113.216	81839.6	11.54573	0.52858	0.03110
45	545487.	117.547	29579.0	2.59844	64.03716	1.07158
46	582327.	121.452	11105.4	3.61624	7.77852	0.03424
47	597086.	122.981	18128.7	0.19380	45.15464	1.48229
48	608155.	124.116	28397.4	5.36380	2.84744	0.02407
49	651093.	128.423	27225.4	6.60180	2.24517	0.12999
50	662347.	129.528	29312.9	0.22714	7.54589	0.08628

START 386.4  
 \*\*\*\*\*X  
 Written by : FEMAP X  
 Version : 4.30 X  
 From Model :LIGO END-PB1 T=18 INCHES X  
 Date : Thu Aug 24 13:40:08 1995 X  
 \*\*\*\*\*

MATLG,1,SOIL 1 - G,8354.,0.37,0.,0.,0.98,  
 MATLG,2,CONC 1 - G,3600001.,0.15,0.096453,0.,0.02,

END				
NODE, 1,	0.,	66.,	0.	
NODE, 2,	0.,	107.5,	0.	
NODE, 3,	0.,	149.,	0.	
NODE, 4,	0.,	369.,	0.	
NODE, 5,	0.,	395.5,	0.	
NODE, 6,	0.,	422.,	0.	
NODE, 7,	39.,	0.,	0.	
NODE, 8,	39.,	33.,	0.	
NODE, 9,	39.,	66.,	0.	
NODE, 10,	39.,	107.5,	0.	
NODE, 11,	39.,	149.,	0.	
NODE, 12,	39.,	369.,	0.	
NODE, 13,	39.,	395.5,	0.	
NODE, 14,	39.,	422.,	0.	
NODE, 15,	80.75,	0.,	0.	
NODE, 16,	80.75,	33.,	0.	
NODE, 17,	80.75,	66.,	0.	
NODE, 18,	80.75,	107.5,	0.	
NODE, 19,	80.75,	149.,	0.	
NODE, 20,	80.75,	369.,	0.	
NODE, 21,	80.75,	395.5,	0.	
NODE, 22,	80.75,	422.,	0.	
NODE, 23,	122.5,	0.,	0.	
NODE, 24,	122.5,	33.,	0.	
NODE, 25,	122.5,	66.,	0.	
NODE, 26,	122.5,	107.5,	0.	
NODE, 27,	122.5,	149.,	0.	
NODE, 28,	122.5,	189.,	0.	
NODE, 29,	122.5,	230.,	0.	
NODE, 30,	122.5,	271.,	0.	
NODE, 31,	122.5,	320.,	0.	
NODE, 32,	122.5,	369.,	0.	
NODE, 33,	122.5,	395.5,	0.	
NODE, 34,	122.5,	422.,	0.	
NODE, 35,	163.1,	0.,	0.	
NODE, 36,	163.1,	33.,	0.	
NODE, 37,	163.1,	66.,	0.	
NODE, 38,	163.1,	107.5,	0.	
NODE, 39,	163.1,	149.,	0.	
NODE, 40,	163.1,	189.,	0.	
NODE, 41,	163.1,	230.,	0.	
NODE, 42,	163.1,	271.,	0.	
NODE, 43,	163.1,	320.,	0.	
NODE, 44,	163.1,	369.,	0.	
NODE, 45,	163.1,	395.5,	0.	
NODE, 46,	163.1,	422.,	0.	
NODE, 47,	203.7,	0.,	0.	
NODE, 48,	203.7,	33.,	0.	
NODE, 49,	203.7,	66.,	0.	
NODE, 50,	203.7,	107.5,	0.	
NODE, 51,	203.7,	149.,	0.	
NODE, 52,	203.7,	189.,	0.	
NODE, 53,	203.7,	230.,	0.	
NODE, 54,	203.7,	271.,	0.	
NODE, 55,	203.7,	320.,	0.	

NODE,	56,	203.7,	369.,	0.
NODE,	57,	203.7,	395.5,	0.
NODE,	58,	203.7,	422.,	0.
NODE,	59,	244.3,	0.,	0.
NODE,	60,	244.3,	33.,	0.
NODE,	61,	244.3,	66.,	0.
NODE,	62,	244.3,	107.5,	0.
NODE,	63,	244.3,	149.,	0.
NODE,	64,	244.3,	189.,	0.
NODE,	65,	244.3,	230.,	0.
NODE,	66,	244.3,	271.,	0.
NODE,	67,	244.3,	320.,	0.
NODE,	68,	244.3,	369.,	0.
NODE,	69,	244.3,	395.5,	0.
NODE,	70,	244.3,	422.,	0.
NODE,	71,	284.9,	0.,	0.
NODE,	72,	284.9,	33.,	0.
NODE,	73,	284.9,	66.,	0.
NODE,	74,	284.9,	107.5,	0.
NODE,	75,	284.9,	149.,	0.
NODE,	76,	284.9,	189.,	0.
NODE,	77,	284.9,	230.,	0.
NODE,	78,	284.9,	271.,	0.
NODE,	79,	284.9,	320.,	0.
NODE,	80,	284.9,	369.,	0.
NODE,	81,	284.9,	395.5,	0.
NODE,	82,	284.9,	422.,	0.
NODE,	83,	325.5,	0.,	0.
NODE,	84,	325.5,	33.,	0.
NODE,	85,	325.5,	66.,	0.
NODE,	86,	325.5,	107.5,	0.
NODE,	87,	325.5,	149.,	0.
NODE,	88,	325.5,	189.,	0.
NODE,	89,	325.5,	230.,	0.
NODE,	90,	325.5,	271.,	0.
NODE,	91,	325.5,	320.,	0.
NODE,	92,	325.5,	369.,	0.
NODE,	93,	325.5,	395.5,	0.
NODE,	94,	325.5,	422.,	0.
NODE,	95,	366.1,	0.,	0.
NODE,	96,	366.1,	33.,	0.
NODE,	97,	366.1,	66.,	0.
NODE,	98,	366.1,	107.5,	0.
NODE,	99,	366.1,	149.,	0.
NODE,	100,	366.1,	189.,	0.
NODE,	101,	366.1,	230.,	0.
NODE,	102,	366.1,	271.,	0.
NODE,	103,	366.1,	320.,	0.
NODE,	104,	366.1,	369.,	0.
NODE,	105,	366.1,	395.5,	0.
NODE,	106,	366.1,	422.,	0.
NODE,	107,	406.7,	0.,	0.
NODE,	108,	406.7,	33.,	0.
NODE,	109,	406.7,	66.,	0.
NODE,	110,	406.7,	107.5,	0.
NODE,	111,	406.7,	149.,	0.
NODE,	112,	406.7,	189.,	0.
NODE,	113,	406.7,	230.,	0.
NODE,	114,	406.7,	271.,	0.
NODE,	115,	406.7,	320.,	0.
NODE,	116,	406.7,	369.,	0.
NODE,	117,	406.7,	395.5,	0.
NODE,	118,	406.7,	422.,	0.
NODE,	119,	447.3,	0.,	0.
NODE,	120,	447.3,	33.,	0.

NODE,	121,	447.3,	66.,	0.
NODE,	122,	447.3,	107.5,	0.
NODE,	123,	447.3,	149.,	0.
NODE,	124,	447.3,	189.,	0.
NODE,	125,	447.3,	230.,	0.
NODE,	126,	447.3,	271.,	0.
NODE,	127,	447.3,	320.,	0.
NODE,	128,	447.3,	369.,	0.
NODE,	129,	447.3,	395.5,	0.
NODE,	130,	447.3,	422.,	0.
NODE,	131,	487.9,	0.,	0.
NODE,	132,	487.9,	33.,	0.
NODE,	133,	487.9,	66.,	0.
NODE,	134,	487.9,	107.5,	0.
NODE,	135,	487.9,	149.,	0.
NODE,	136,	487.9,	189.,	0.
NODE,	137,	487.9,	230.,	0.
NODE,	138,	487.9,	271.,	0.
NODE,	139,	487.9,	320.,	0.
NODE,	140,	487.9,	369.,	0.
NODE,	141,	487.9,	395.5,	0.
NODE,	142,	487.9,	422.,	0.
NODE,	143,	528.5,	0.,	0.
NODE,	144,	528.5,	33.,	0.
NODE,	145,	528.5,	66.,	0.
NODE,	146,	528.5,	107.5,	0.
NODE,	147,	528.5,	149.,	0.
NODE,	148,	528.5,	189.,	0.
NODE,	149,	528.5,	230.,	0.
NODE,	150,	528.5,	271.,	0.
NODE,	151,	528.5,	320.,	0.
NODE,	152,	528.5,	369.,	0.
NODE,	153,	528.5,	395.5,	0.
NODE,	154,	528.5,	422.,	0.
NODE,	155,	568.5,	0.,	0.
NODE,	156,	568.5,	33.,	0.
NODE,	157,	568.5,	66.,	0.
NODE,	158,	568.5,	107.5,	0.
NODE,	159,	568.5,	149.,	0.
NODE,	160,	568.5,	189.,	0.
NODE,	161,	568.5,	230.,	0.
NODE,	162,	568.5,	271.,	0.
NODE,	163,	568.5,	320.,	0.
NODE,	164,	568.5,	369.,	0.
NODE,	165,	568.5,	395.5,	0.
NODE,	166,	568.5,	422.,	0.
NODE,	167,	608.5,	0.,	0.
NODE,	168,	608.5,	33.,	0.
NODE,	169,	608.5,	66.,	0.
NODE,	170,	608.5,	107.5,	0.
NODE,	171,	608.5,	149.,	0.
NODE,	172,	608.5,	189.,	0.
NODE,	173,	608.5,	230.,	0.
NODE,	174,	608.5,	271.,	0.
NODE,	175,	608.5,	320.,	0.
NODE,	176,	608.5,	369.,	0.
NODE,	177,	608.5,	395.5,	0.
NODE,	178,	608.5,	422.,	0.
NODE,	179,	648.5,	0.,	0.
NODE,	180,	648.5,	33.,	0.
NODE,	181,	648.5,	66.,	0.
NODE,	182,	648.5,	107.5,	0.
NODE,	183,	648.5,	149.,	0.
NODE,	184,	648.5,	189.,	0.
NODE,	185,	648.5,	230.,	0.

NODE,	186,	648.5,	271.,	0.
NODE,	187,	648.5,	320.,	0.
NODE,	188,	648.5,	369.,	0.
NODE,	189,	648.5,	395.5,	0.
NODE,	190,	648.5,	422.,	0.
NODE,	191,	686.,	0.,	0.
NODE,	192,	686.,	33.,	0.
NODE,	193,	686.,	66.,	0.
NODE,	194,	686.,	107.5,	0.
NODE,	195,	686.,	149.,	0.
NODE,	196,	686.,	189.,	0.
NODE,	197,	686.,	230.,	0.
NODE,	198,	686.,	271.,	0.
NODE,	199,	686.,	320.,	0.
NODE,	200,	686.,	369.,	0.
NODE,	201,	686.,	395.5,	0.
NODE,	202,	686.,	422.,	0.
NODE,	203,	0.,	66.,	-68.
NODE,	204,	0.,	107.5,	-68.
NODE,	205,	0.,	149.,	-68.
NODE,	206,	0.,	369.,	-68.
NODE,	207,	0.,	395.5,	-68.
NODE,	208,	0.,	422.,	-68.
NODE,	209,	39.,	0.,	-68.
NODE,	210,	39.,	33.,	-68.
NODE,	211,	39.,	66.,	-68.
NODE,	212,	39.,	107.5,	-68.
NODE,	213,	39.,	149.,	-68.
NODE,	214,	39.,	369.,	-68.
NODE,	215,	39.,	395.5,	-68.
NODE,	216,	39.,	422.,	-68.
NODE,	217,	80.75,	0.,	-68.
NODE,	218,	80.75,	33.,	-68.
NODE,	219,	80.75,	66.,	-68.
NODE,	220,	80.75,	107.5,	-68.
NODE,	221,	80.75,	149.,	-68.
NODE,	222,	80.75,	369.,	-68.
NODE,	223,	80.75,	395.5,	-68.
NODE,	224,	80.75,	422.,	-68.
NODE,	225,	122.5,	0.,	-68.
NODE,	226,	122.5,	33.,	-68.
NODE,	227,	122.5,	66.,	-68.
NODE,	228,	122.5,	107.5,	-68.
NODE,	229,	122.5,	149.,	-68.
NODE,	230,	122.5,	189.,	-68.
NODE,	231,	122.5,	230.,	-68.
NODE,	232,	122.5,	271.,	-68.
NODE,	233,	122.5,	320.,	-68.
NODE,	234,	122.5,	369.,	-68.
NODE,	235,	122.5,	395.5,	-68.
NODE,	236,	122.5,	422.,	-68.
NODE,	237,	163.1,	0.,	-68.
NODE,	238,	163.1,	33.,	-68.
NODE,	239,	163.1,	66.,	-68.
NODE,	240,	163.1,	107.5,	-68.
NODE,	241,	163.1,	149.,	-68.
NODE,	242,	163.1,	189.,	-68.
NODE,	243,	163.1,	230.,	-68.
NODE,	244,	163.1,	271.,	-68.
NODE,	245,	163.1,	320.,	-68.
NODE,	246,	163.1,	369.,	-68.
NODE,	247,	163.1,	395.5,	-68.
NODE,	248,	163.1,	422.,	-68.
NODE,	249,	203.7,	0.,	-68.
NODE,	250,	203.7,	33.,	-68.

NODE,	251,	203.7,	66.,	-68.
NODE,	252,	203.7,	107.5,	-68.
NODE,	253,	203.7,	149.,	-68.
NODE,	254,	203.7,	189.,	-68.
NODE,	255,	203.7,	230.,	-68.
NODE,	256,	203.7,	271.,	-68.
NODE,	257,	203.7,	320.,	-68.
NODE,	258,	203.7,	369.,	-68.
NODE,	259,	203.7,	395.5,	-68.
NODE,	260,	203.7,	422.,	-68.
NODE,	261,	244.3,	0.,	-68.
NODE,	262,	244.3,	33.,	-68.
NODE,	263,	244.3,	66.,	-68.
NODE,	264,	244.3,	107.5,	-68.
NODE,	265,	244.3,	149.,	-68.
NODE,	266,	244.3,	189.,	-68.
NODE,	267,	244.3,	230.,	-68.
NODE,	268,	244.3,	271.,	-68.
NODE,	269,	244.3,	320.,	-68.
NODE,	270,	244.3,	369.,	-68.
NODE,	271,	244.3,	395.5,	-68.
NODE,	272,	244.3,	422.,	-68.
NODE,	273,	284.9,	0.,	-68.
NODE,	274,	284.9,	33.,	-68.
NODE,	275,	284.9,	66.,	-68.
NODE,	276,	284.9,	107.5,	-68.
NODE,	277,	284.9,	149.,	-68.
NODE,	278,	284.9,	189.,	-68.
NODE,	279,	284.9,	230.,	-68.
NODE,	280,	284.9,	271.,	-68.
NODE,	281,	284.9,	320.,	-68.
NODE,	282,	284.9,	369.,	-68.
NODE,	283,	284.9,	395.5,	-68.
NODE,	284,	284.9,	422.,	-68.
NODE,	285,	325.5,	0.,	-68.
NODE,	286,	325.5,	33.,	-68.
NODE,	287,	325.5,	66.,	-68.
NODE,	288,	325.5,	107.5,	-68.
NODE,	289,	325.5,	149.,	-68.
NODE,	290,	325.5,	189.,	-68.
NODE,	291,	325.5,	230.,	-68.
NODE,	292,	325.5,	271.,	-68.
NODE,	293,	325.5,	320.,	-68.
NODE,	294,	325.5,	369.,	-68.
NODE,	295,	325.5,	395.5,	-68.
NODE,	296,	325.5,	422.,	-68.
NODE,	297,	366.1,	0.,	-68.
NODE,	298,	366.1,	33.,	-68.
NODE,	299,	366.1,	66.,	-68.
NODE,	300,	366.1,	107.5,	-68.
NODE,	301,	366.1,	149.,	-68.
NODE,	302,	366.1,	189.,	-68.
NODE,	303,	366.1,	230.,	-68.
NODE,	304,	366.1,	271.,	-68.
NODE,	305,	366.1,	320.,	-68.
NODE,	306,	366.1,	369.,	-68.
NODE,	307,	366.1,	395.5,	-68.
NODE,	308,	366.1,	422.,	-68.
NODE,	309,	406.7,	0.,	-68.
NODE,	310,	406.7,	33.,	-68.
NODE,	311,	406.7,	66.,	-68.
NODE,	312,	406.7,	107.5,	-68.
NODE,	313,	406.7,	149.,	-68.
NODE,	314,	406.7,	189.,	-68.
NODE,	315,	406.7,	230.,	-68.

NODE,	316,	406.7,	271.,	-68.
NODE,	317,	406.7,	320.,	-68.
NODE,	318,	406.7,	369.,	-68.
NODE,	319,	406.7,	395.5,	-68.
NODE,	320,	406.7,	422.,	-68.
NODE,	321,	447.3,	0.,	-68.
NODE,	322,	447.3,	33.,	-68.
NODE,	323,	447.3,	66.,	-68.
NODE,	324,	447.3,	107.5,	-68.
NODE,	325,	447.3,	149.,	-68.
NODE,	326,	447.3,	189.,	-68.
NODE,	327,	447.3,	230.,	-68.
NODE,	328,	447.3,	271.,	-68.
NODE,	329,	447.3,	320.,	-68.
NODE,	330,	447.3,	369.,	-68.
NODE,	331,	447.3,	395.5,	-68.
NODE,	332,	447.3,	422.,	-68.
NODE,	333,	487.9,	0.,	-68.
NODE,	334,	487.9,	33.,	-68.
NODE,	335,	487.9,	66.,	-68.
NODE,	336,	487.9,	107.5,	-68.
NODE,	337,	487.9,	149.,	-68.
NODE,	338,	487.9,	189.,	-68.
NODE,	339,	487.9,	230.,	-68.
NODE,	340,	487.9,	271.,	-68.
NODE,	341,	487.9,	320.,	-68.
NODE,	342,	487.9,	369.,	-68.
NODE,	343,	487.9,	395.5,	-68.
NODE,	344,	487.9,	422.,	-68.
NODE,	345,	528.5,	0.,	-68.
NODE,	346,	528.5,	33.,	-68.
NODE,	347,	528.5,	66.,	-68.
NODE,	348,	528.5,	107.5,	-68.
NODE,	349,	528.5,	149.,	-68.
NODE,	350,	528.5,	189.,	-68.
NODE,	351,	528.5,	230.,	-68.
NODE,	352,	528.5,	271.,	-68.
NODE,	353,	528.5,	320.,	-68.
NODE,	354,	528.5,	369.,	-68.
NODE,	355,	528.5,	395.5,	-68.
NODE,	356,	528.5,	422.,	-68.
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NODE,	358,	568.5,	33.,	-68.
NODE,	359,	568.5,	66.,	-68.
NODE,	360,	568.5,	107.5,	-68.
NODE,	361,	568.5,	149.,	-68.
NODE,	362,	568.5,	189.,	-68.
NODE,	363,	568.5,	230.,	-68.
NODE,	364,	568.5,	271.,	-68.
NODE,	365,	568.5,	320.,	-68.
NODE,	366,	568.5,	369.,	-68.
NODE,	367,	568.5,	395.5,	-68.
NODE,	368,	568.5,	422.,	-68.
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NODE,	379,	608.5,	395.5,	-68.
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NODE,	404,	686.,	422.,	-68.

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QUADB, 265, 73, 74, 86, 85, 2, 1, 18.,  
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QUADB, 268, 76, 77, 89, 88, 2, 1, 18.,  
QUADB, 269, 77, 78, 90, 89, 2, 1, 18.,  
QUADB, 270, 78, 79, 91, 90, 2, 1, 18.,  
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QUADB,322,,135,,136,,148,,147,,2,1,18.,  
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QUADB,324,,137,,138,,150,,149,,2,1,18.,  
QUADB,325,,138,,139,,151,,150,,2,1,18.,  
QUADB,326,,139,,140,,152,,151,,2,1,18.,  
QUADB,327,,140,,141,,153,,152,,2,1,18.,  
QUADB,328,,141,,142,,154,,153,,2,1,18.,  
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QUADB,335,,149,,150,,162,,161,,2,1,18.,  
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 QUADB,367,,184,,185,,197,,196,,2,1,18.,  
 QUADB,368,,185,,186,,198,,197,,2,1,18.,  
 QUADB,369,,186,,187,,199,,198,,2,1,18.,  
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 QUADB,371,,188,,189,,201,,200,,2,1,18.,  
 QUADB,372,,189,,190,,202,,201,,2,1,18.,  
 END

ENDGEOM  
 DYNAMIC       0               0               0               50       150.               0.  
 OPTION               0               1               0               0               0               66 0 00  
 OUTPUT            1       111               2  
 TAPE4G            1       50  
 TITLE1 LIGO PROJECT  
 TITLE2 END-PB1 MODEL  
 TITLE3 WRITTEN BY FEMAP VERSION 4.30  
 TITLE4 BY P B M  
 1. 06 08/24/95  
 END MODEL

68<sup>4</sup>

COR

```

END-PB1 RESPONSE TO GROUND PSD (V DAMP 0.02) NODE 150
START3          3          1          3.0          1.0          100.0
RMS
PRINT
      2      9      9
      2     13     13

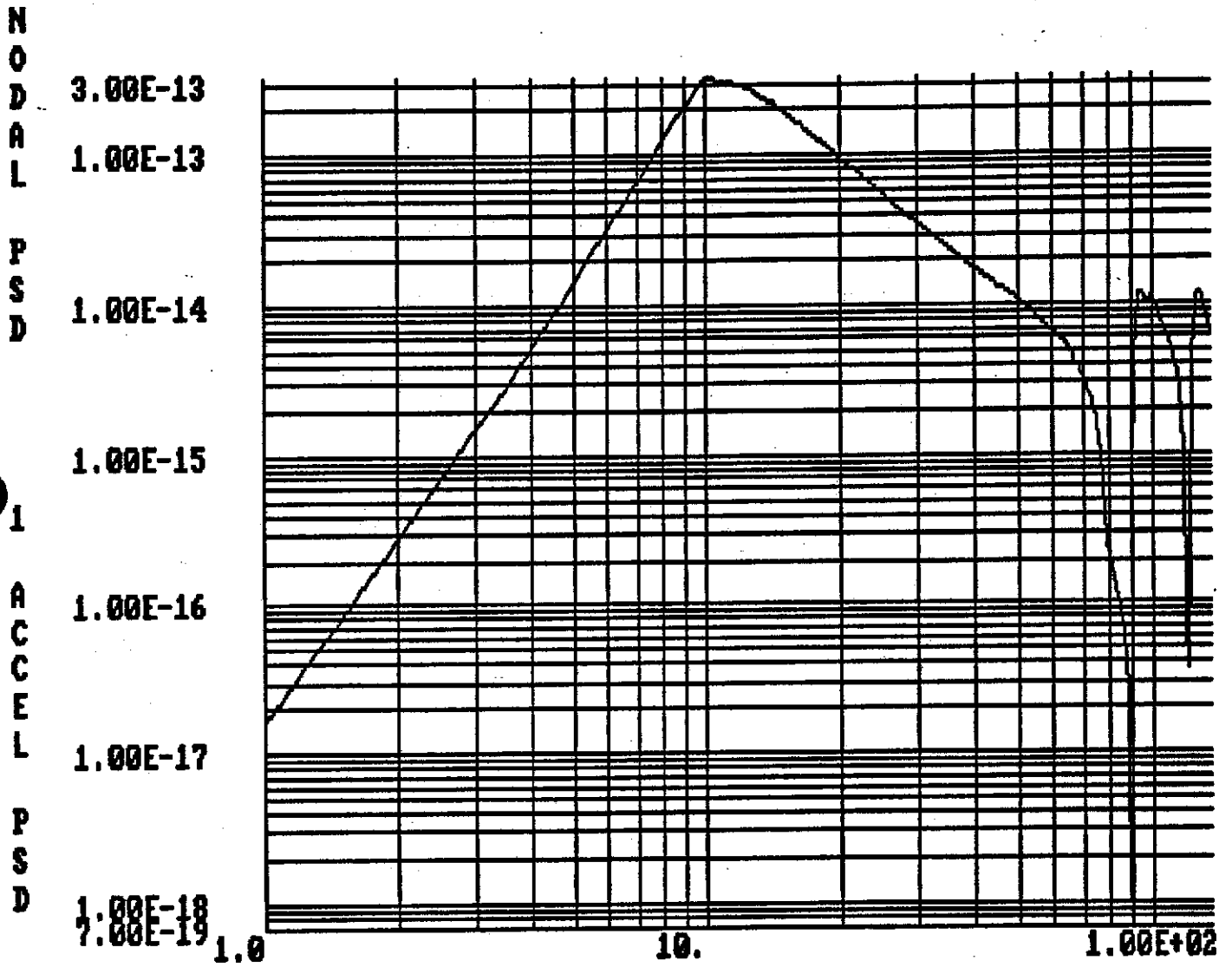
END
MODES
      1          6          99.0
      7          28         99.0

END
PSD      1          1
NODES    150        1          150          2          150          3
END
START PSD INPUT      1
  1 1 7 1 1
  6          1          0.1 1.618E-15          1.0 1.618E-17          10.0 1.618E-13
  6          -7         220.0 1.618E-13
ALL DONE

```



END-PB1 RESPONSE TO GROUND PSD (V DAMP 0.02) NODE 150



FREQUENCY (HZ)

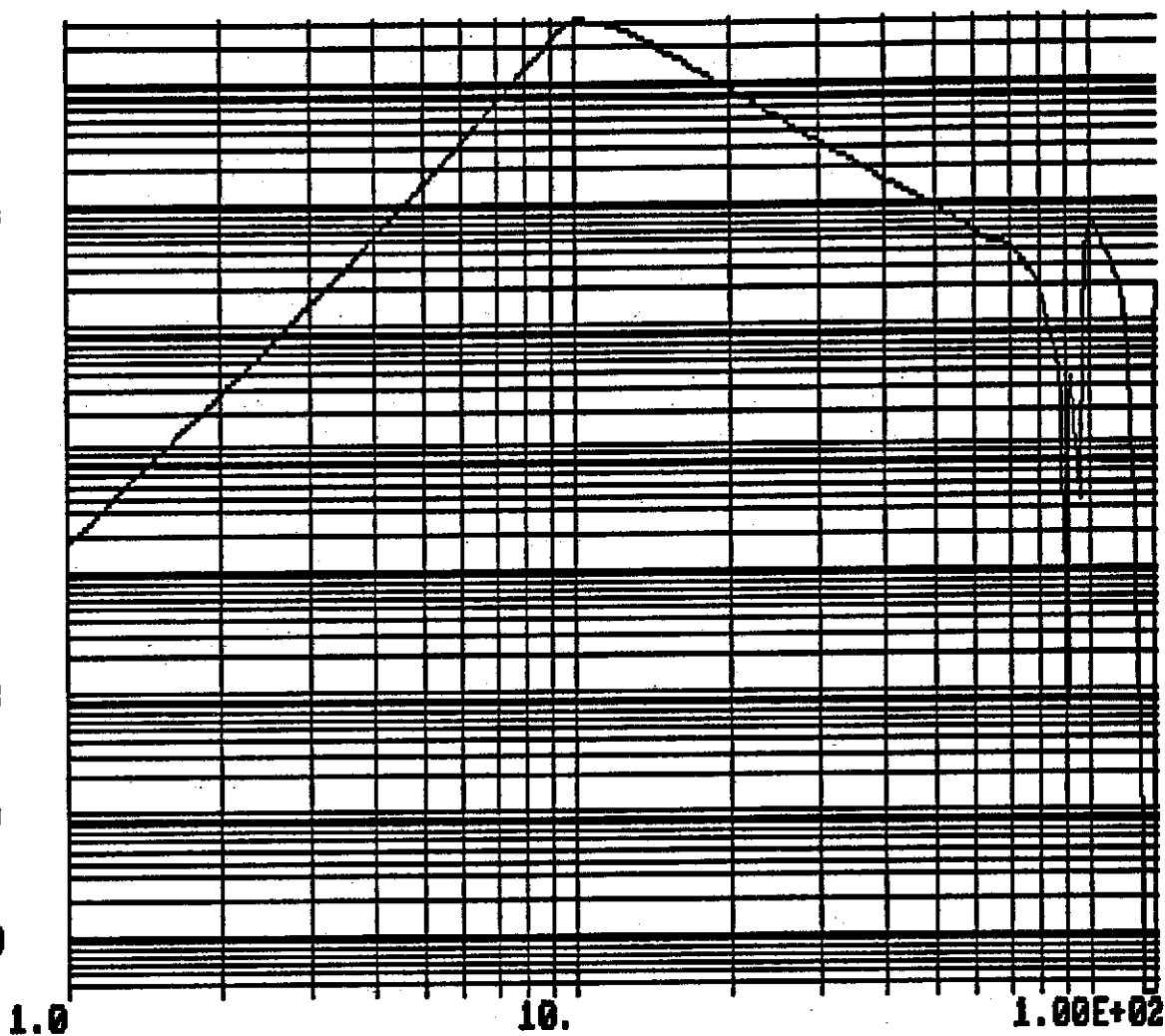
PLOT NO =

1

END-PB1 RESPONSE TO GROUND PSD (V DAMP 0.02) NODE 150

N  
O  
D  
A  
L  
P  
S  
D  
2  
A  
C  
C  
E  
L  
P  
S  
D

3.00E-13  
1.00E-13  
1.00E-14  
1.00E-15  
1.00E-16  
1.00E-17  
1.00E-18  
1.00E-19  
1.00E-20

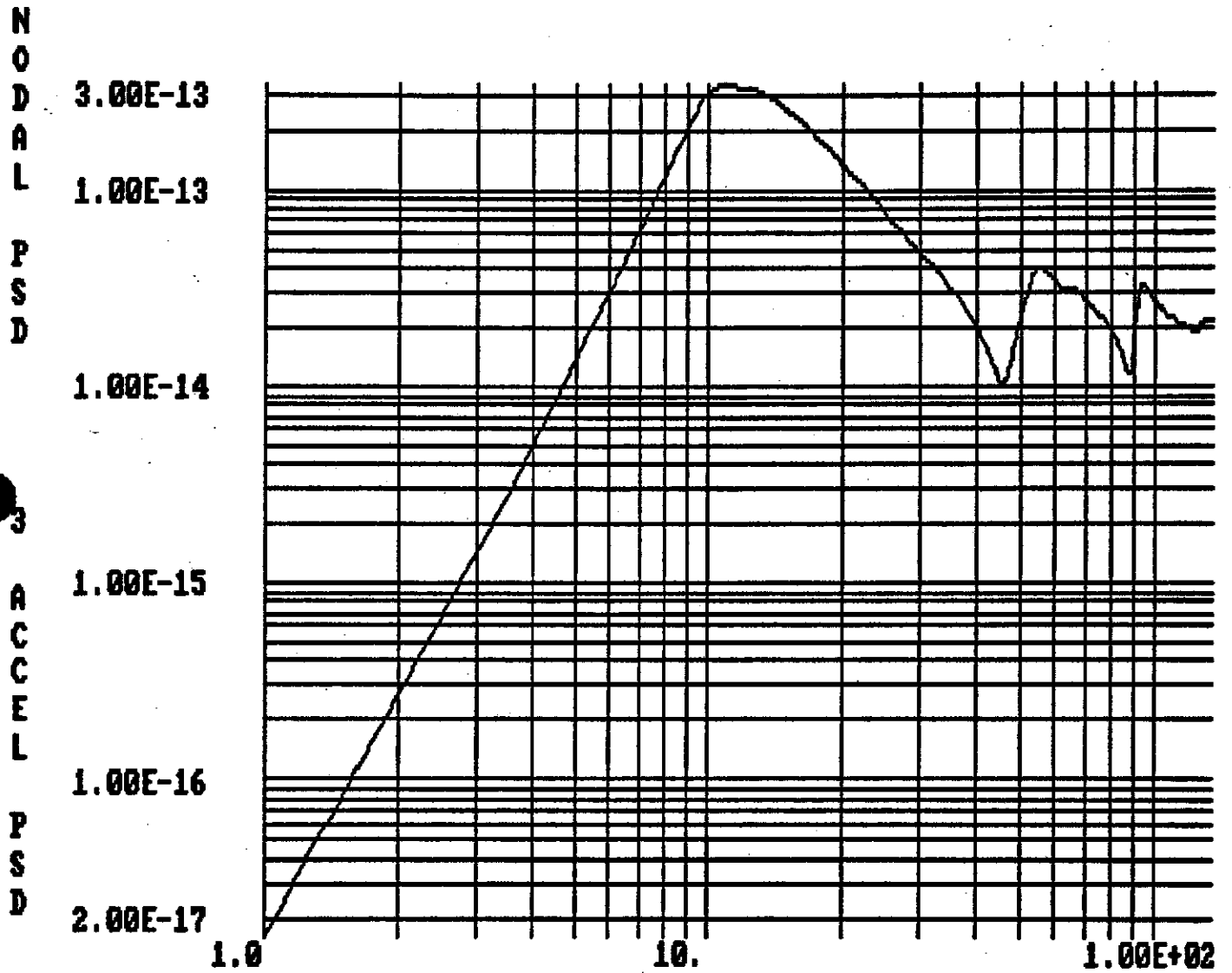


FREQUENCY (HZ)

PLOT NO =

2

END-PB1 RESPONSE TO GROUND PSD (U DAMP 0.02) NODE 150



FREQUENCY (HZ)

PLOT NO =

3

```

36" (COR) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAMPING)
START3          3          1          3.0          1.0          135.0
RMS
PRINT          1
              2      9      9
              2     13     13
END
MODES
              1          6          99.0
              7          39         99.0
END
PSD
NODES        1          1
              150         1          150          2          150          3
END
START PSD INPUT  1
  1 1 7 1 1
  6          1          0.1 1.618E-15          1.0 1.618E-17          10.0 1.618E-13
  6          -7         220.0 1.618E-13
ALL DONE

```



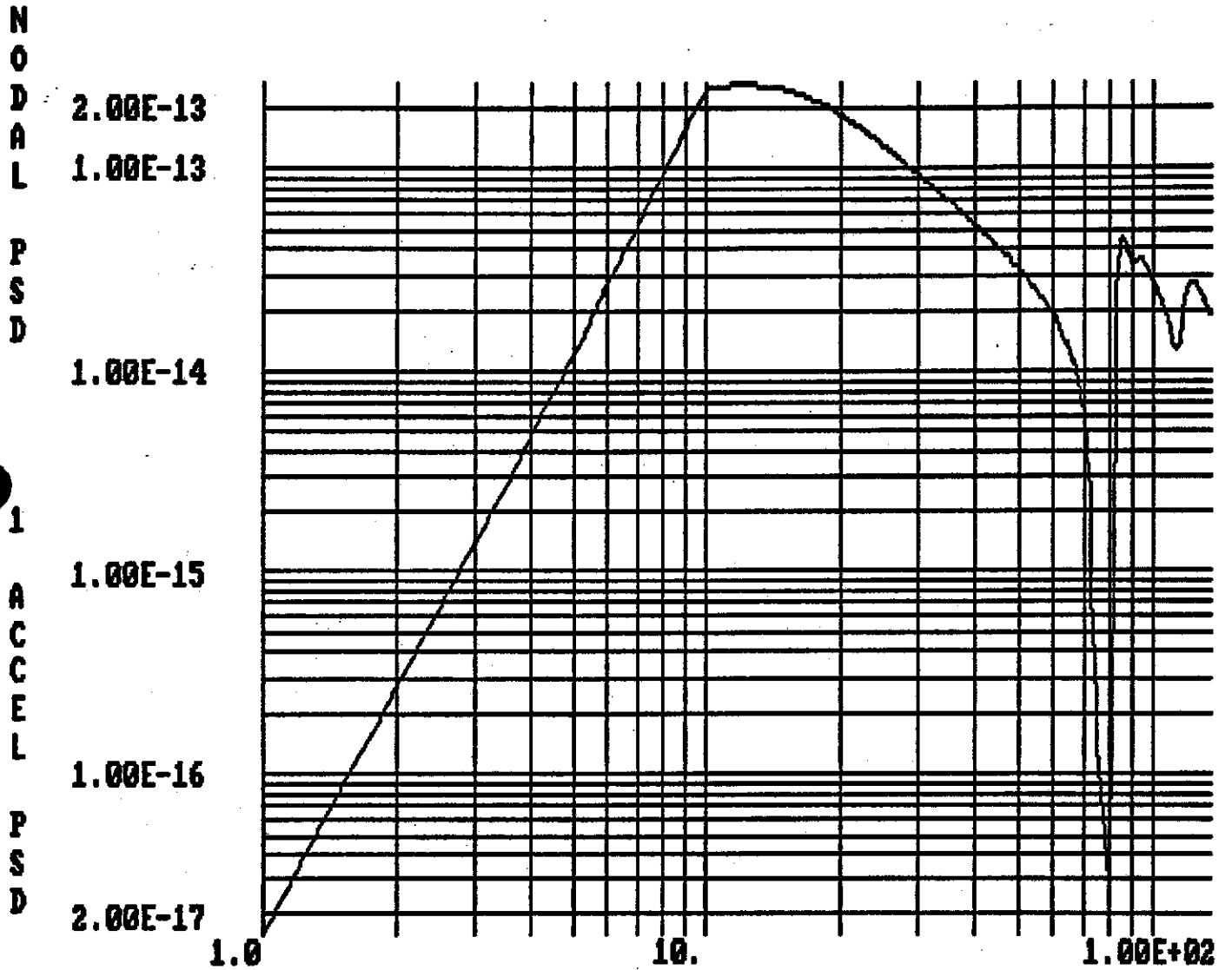
END-PB. 36"

COR TUNE

## MODAL EXTRACTION DATA

MODE NO	EIGENVALUE ( OMEGA**2 )	NATURAL FREQUENCY	PERIOD	GENERALIZED WEIGHT	MAX TRANSL NODE-DOF V	
1	8085.16	14.311	0.0699	623000.	196-2	1.00
2	8639.89	14.794	0.0676	0.101589E+07	142-1	1.00
3	9958.93	15.883	0.0630	466564.	150-3	1.00
4	11961.8	17.407	0.0574	250444.	2-2	1.00
5	15535.1	19.837	0.0504	329519.	27-3	1.00
6	18909.3	21.886	0.0457	180558.	191-3	1.00
7	23489.2	24.392	0.0410	72841.7	1-3	1.00
8	26755.2	26.033	0.0384	98162.7	191-3	1.00
9	42223.6	32.704	0.0306	58560.7	202-3	1.00
10	44606.8	33.614	0.0297	104447.	118-3	1.00
11	49230.9	35.313	0.0283	23863.2	6-3	1.00
12	65663.2	40.783	0.0245	54003.1	3-3	1.00
13	83300.8	45.935	0.0218	45307.1	4-3	1.00
14	95041.5	49.066	0.0204	8942.60	6-2	1.00
15	103096.	51.102	0.0196	28848.2	6-3	1.00
16	137710.	59.061	0.0169	47684.2	3-3	1.00
17	167710.	65.178	0.0153	35894.6	191-3	1.00
18	171639.	65.937	0.0152	52648.0	1-2	1.00
19	194542.	70.198	0.0142	52534.4	4-3	1.00
20	215547.	73.891	0.0135	44454.5	7-3	1.00
21	269856.	82.677	0.0121	256022.	7-1	1.00
22	289337.	85.610	0.0117	102167.	6-3	1.00
23	304107.	87.767	0.0114	75597.4	4-1	1.00
24	305778.	88.008	0.0114	60385.3	202-3	1.00
25	330723.	91.528	0.0109	231044.	6-1	1.00
26	354322.	94.737	0.0106	49713.2	3-3	1.00
27	413451.	102.337	0.0098	85723.1	118-3	1.00
28	492329.	111.673	0.0090	23406.6	202-3	1.00
29	532993.	116.193	0.0086	136592.	202-1	1.00
30	583854.	121.611	0.0082	280063.	179-2	1.00
31	642917.	127.614	0.0078	73324.8	3-3	1.00
32	668327.	130.111	0.0077	43940.8	191-3	1.00
33	695503.	132.730	0.0075	84056.5	6-2	1.00
34	707165.	133.838	0.0075	56111.4	6-3	1.00
35	751302.	137.952	0.0072	101489.	191-2	1.00
36	755992.	138.382	0.0072	90233.1	94-3	1.00
37	823521.	144.430	0.0069	39616.6	202-3	1.00
38	845044.	146.305	0.0068	46822.7	191-3	1.00
39	849433.	146.685	0.0068	184129.	7-1	1.00

36" (COR) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAM

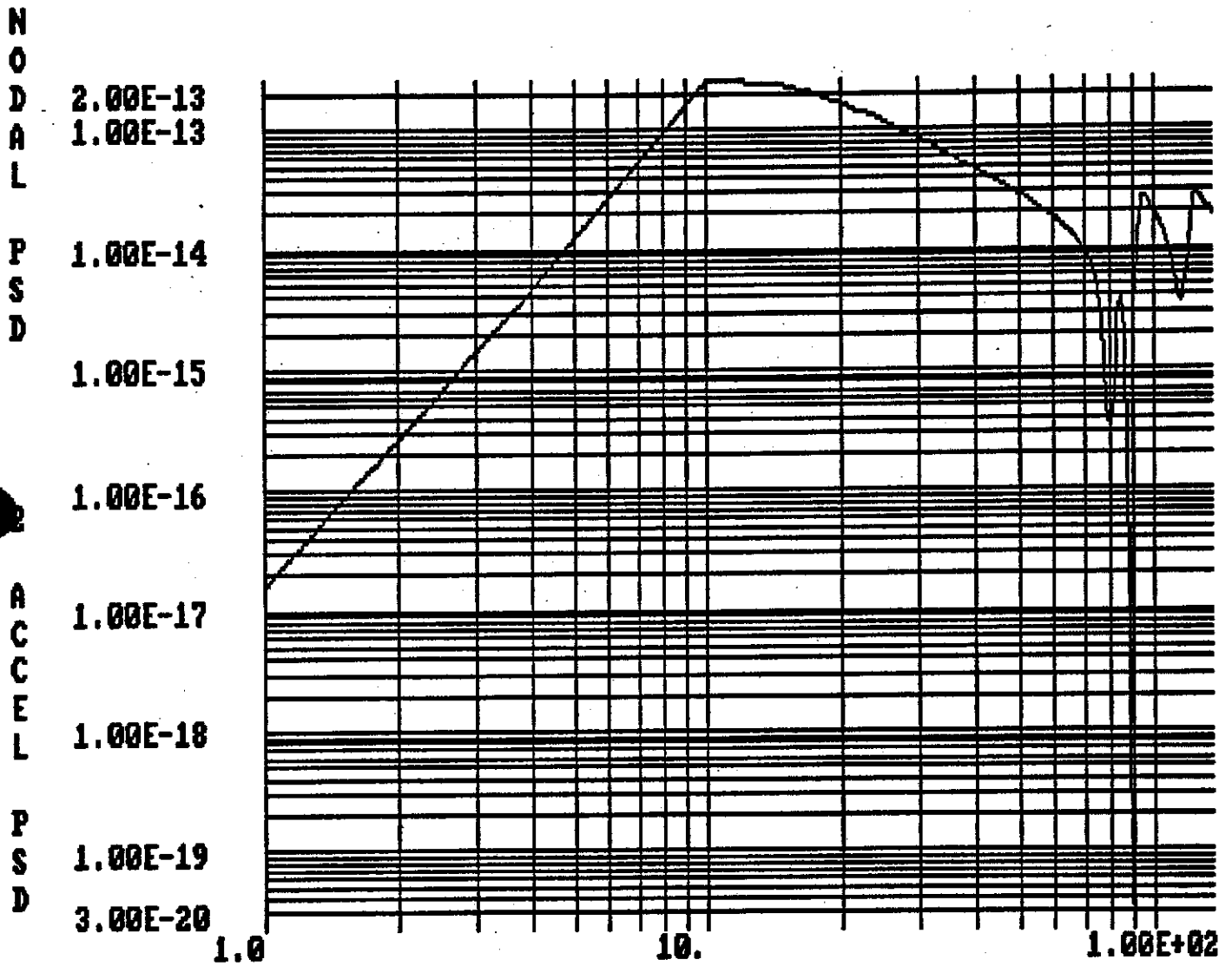


FREQUENCY (HZ)

PLOT NO =

1

36" (COR) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAM



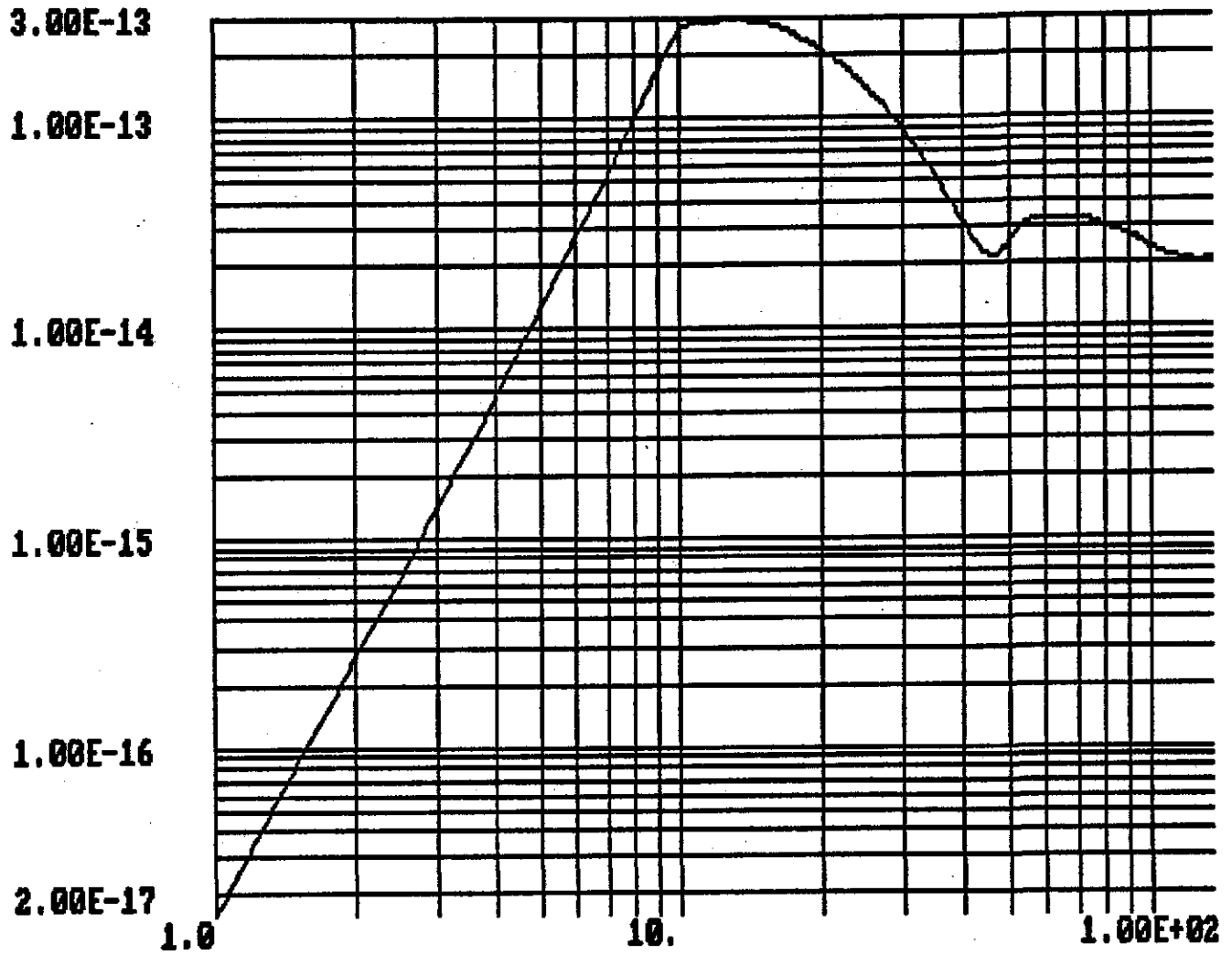
FREQUENCY (HZ)

PLOT NO =

2

36" (COR) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAM

N  
O  
D  
A  
L  
  
P  
S  
D  
  
3  
  
A  
C  
C  
E  
L  
  
P  
S  
D



FREQUENCY (HZ)

PLOT NO =

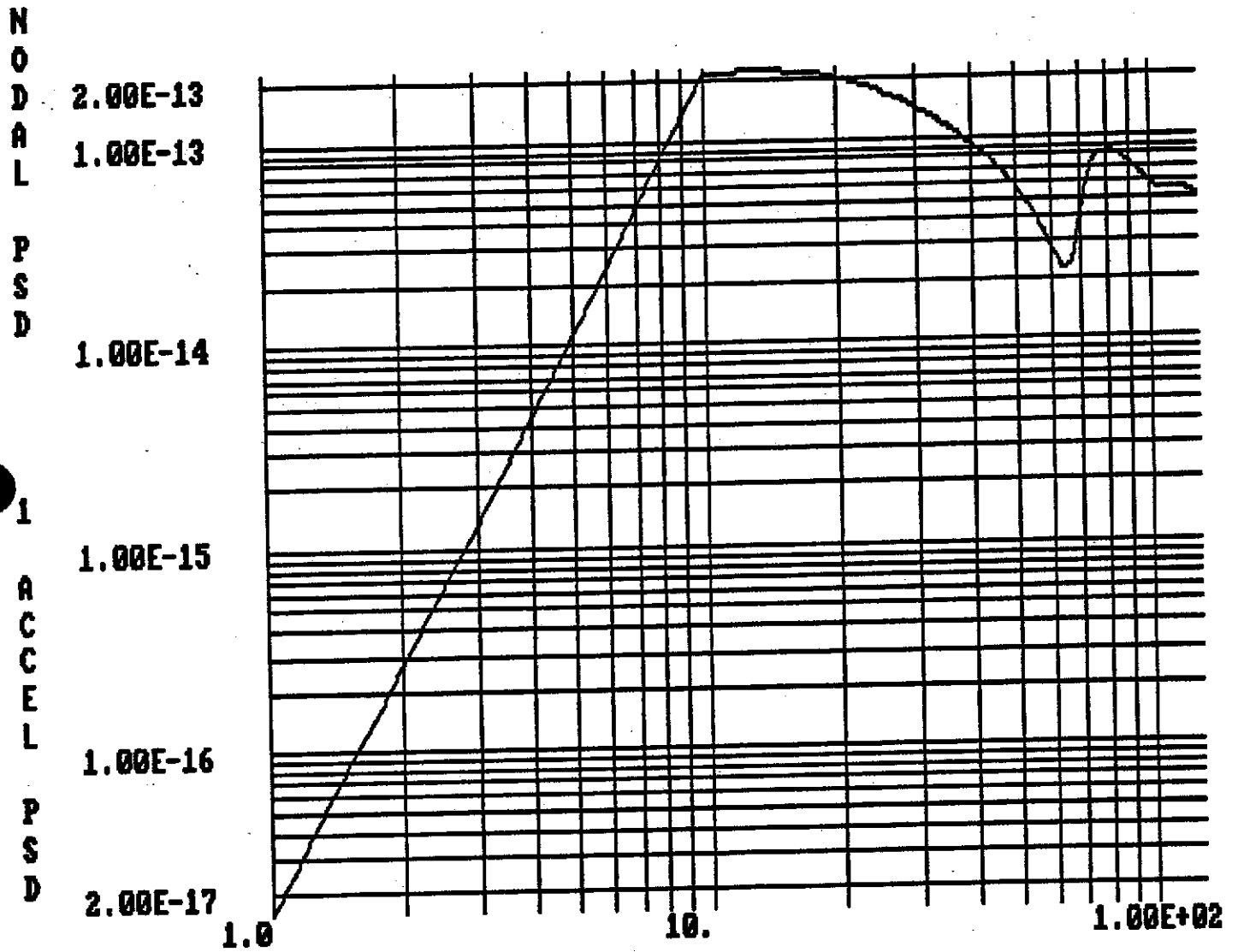
3

```

18" (COR) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAMPING)
START3          3          1          3.0          1.0          128.0
RMS
PRINT          2          9          9
                2          13         13
END
MODES          1          6          99.0
                7          50         99.0
END
PSD           1          1
NODES         150          1          150          2          150          3
END
START PSD INPUT 1
  1 1 7 1 1
  6          1          0.1 1.618E-15          1.0 1.618E-17          10.0 1.618E-13
  6          -7         220.0 1.618E-13
ALL DONE

```

18" (COR) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAM

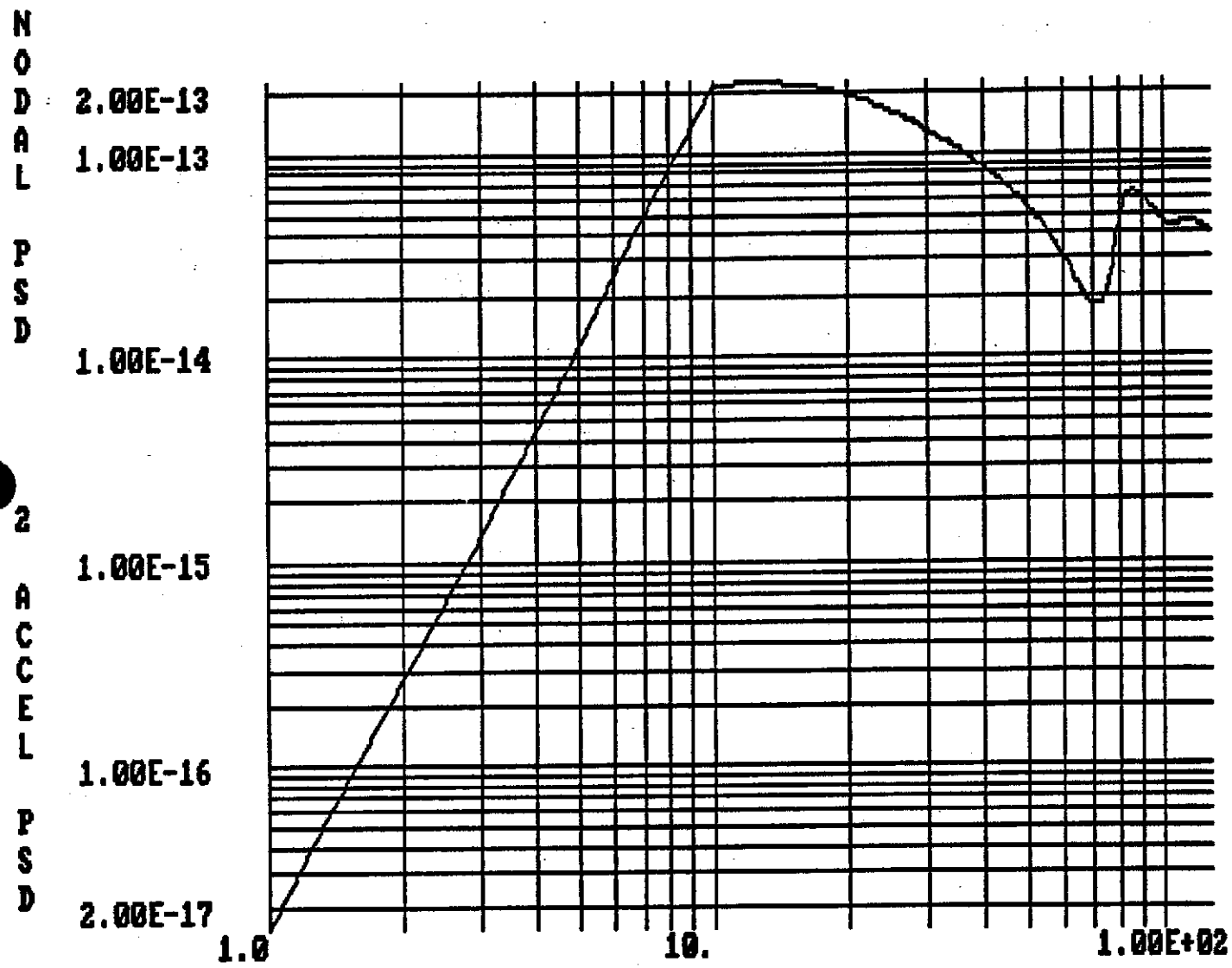


FREQUENCY (HZ)

PLOT NO =

1

18" (COR) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAM

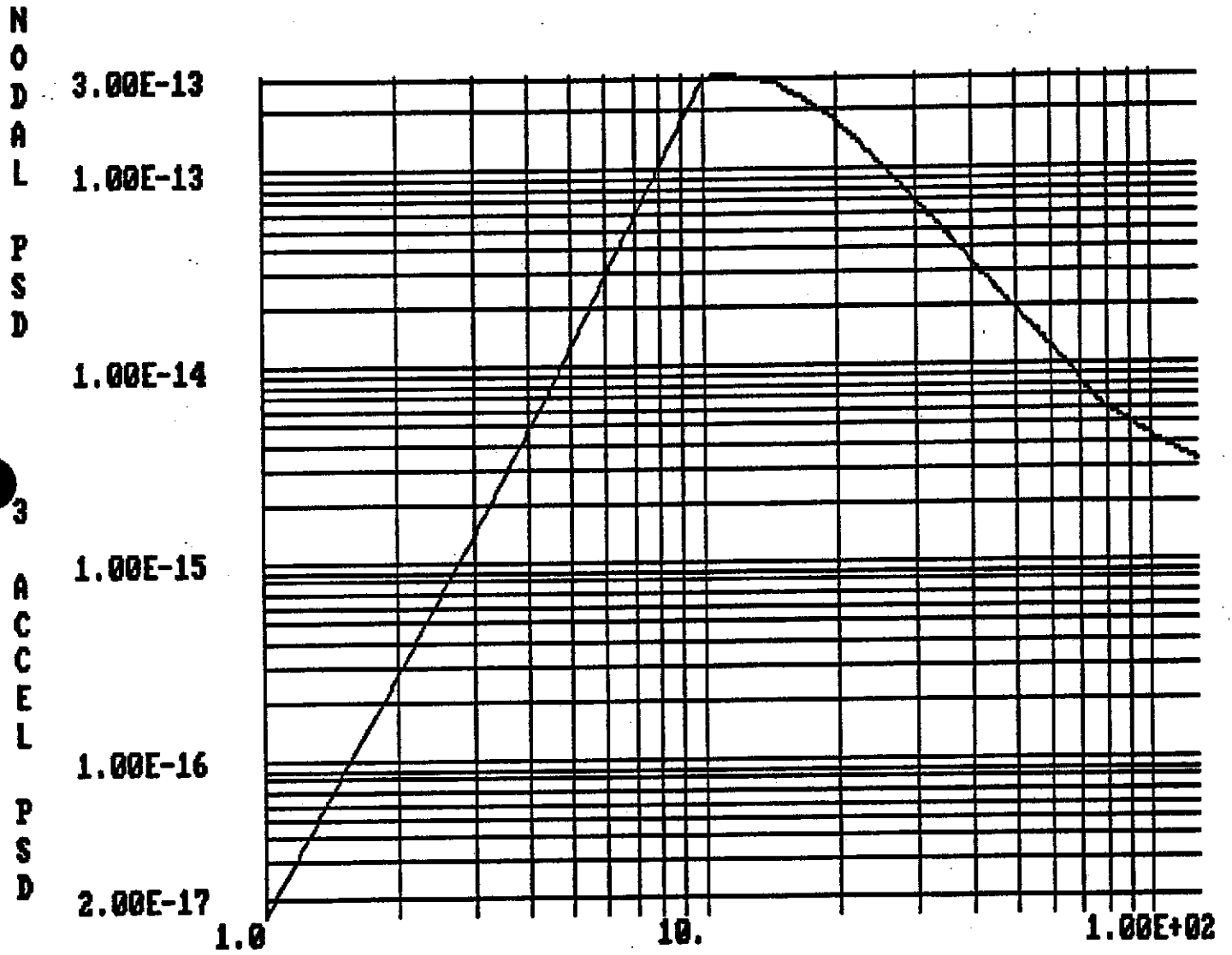


FREQUENCY (HZ)

PLOT NO =

2

18" (COR) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAM



FREQUENCY (HZ)

PLOT NO =

3



```

68" (UNC) END-PB1 RESP TO GROUND PSD (STRAIN ENERGY DAMPING)
START3          3          1          3.0          1.0          135.0
RMS              1
PRINT           1
                2      9      9
                2     13     13

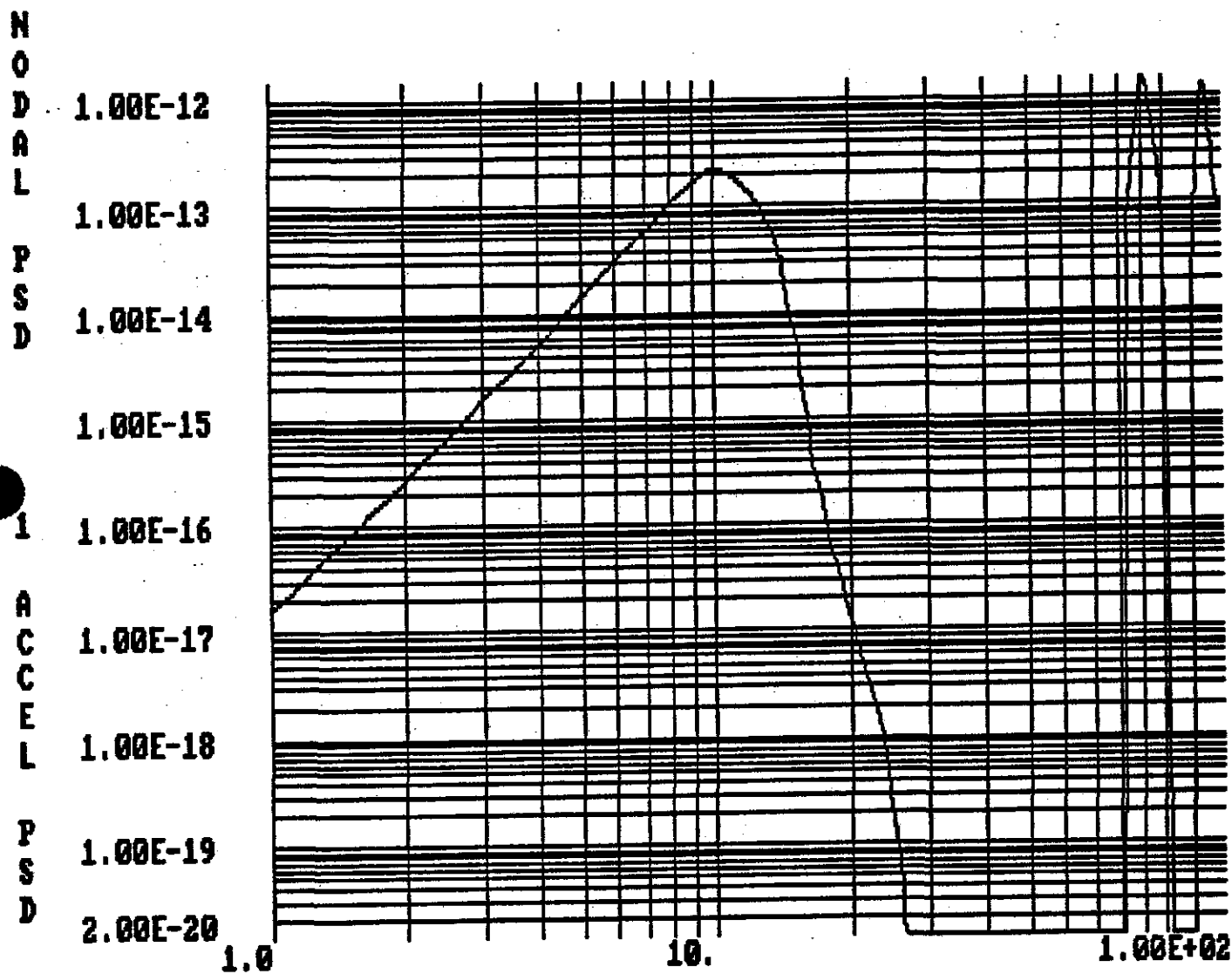
END
MODES          1          6          99.0
              7          28          99.0

END
PSD            1          1
NODES          150          1          150          2          150          3
END
START PSD INPUT 1
  1 1 7 1 2
  6      1          0.1 1.618E-15          1.0 1.618E-17          10.0 1.618E-13
  6      -7         220.0 1.618E-13
ALL DONE

```



68" (UNC) END-PB1 RESP TO GROUND PSD (STRAIN ENERGY DAMP

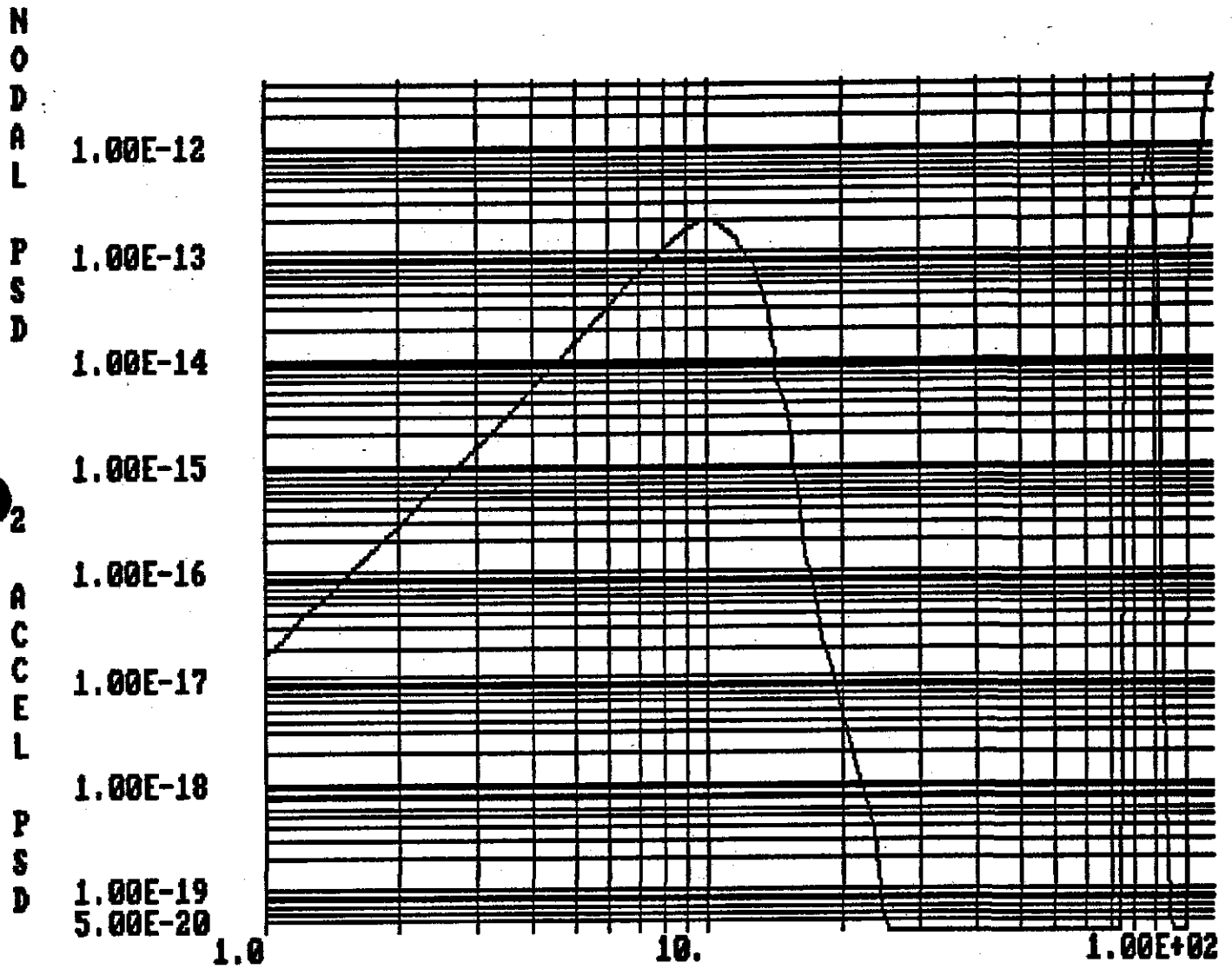


FREQUENCY (HZ)

PLOT NO =

1

68" (UNC) END-PB1 RESP TO GROUND PSD (STRAIN ENERGY DAMP

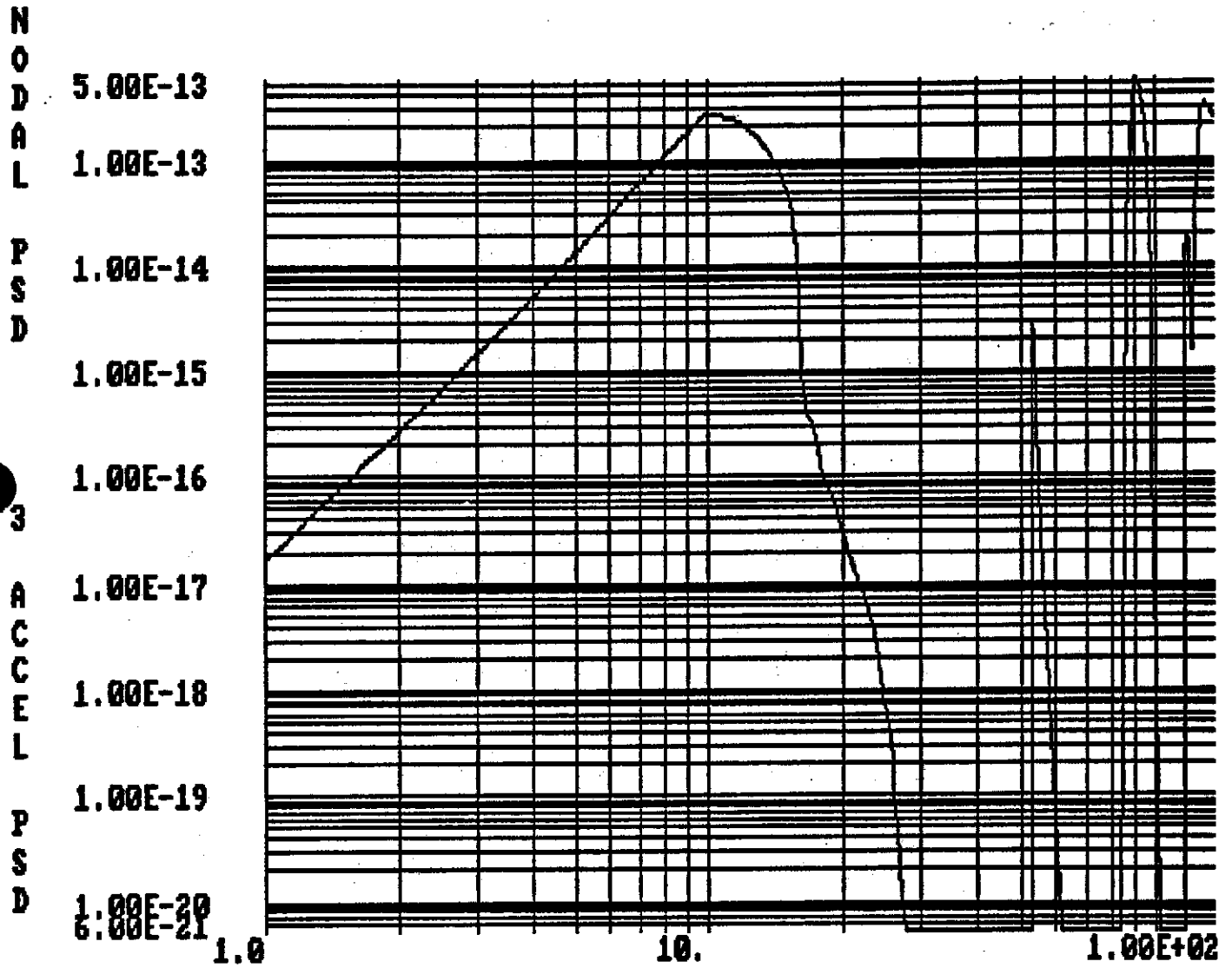


FREQUENCY (HZ)

PLOT NO =

2

68" (UNC) END-PB1 RESP TO GROUND PSD (STRAIN ENERGY DAMP



FREQUENCY (HZ)

PLOT NO =

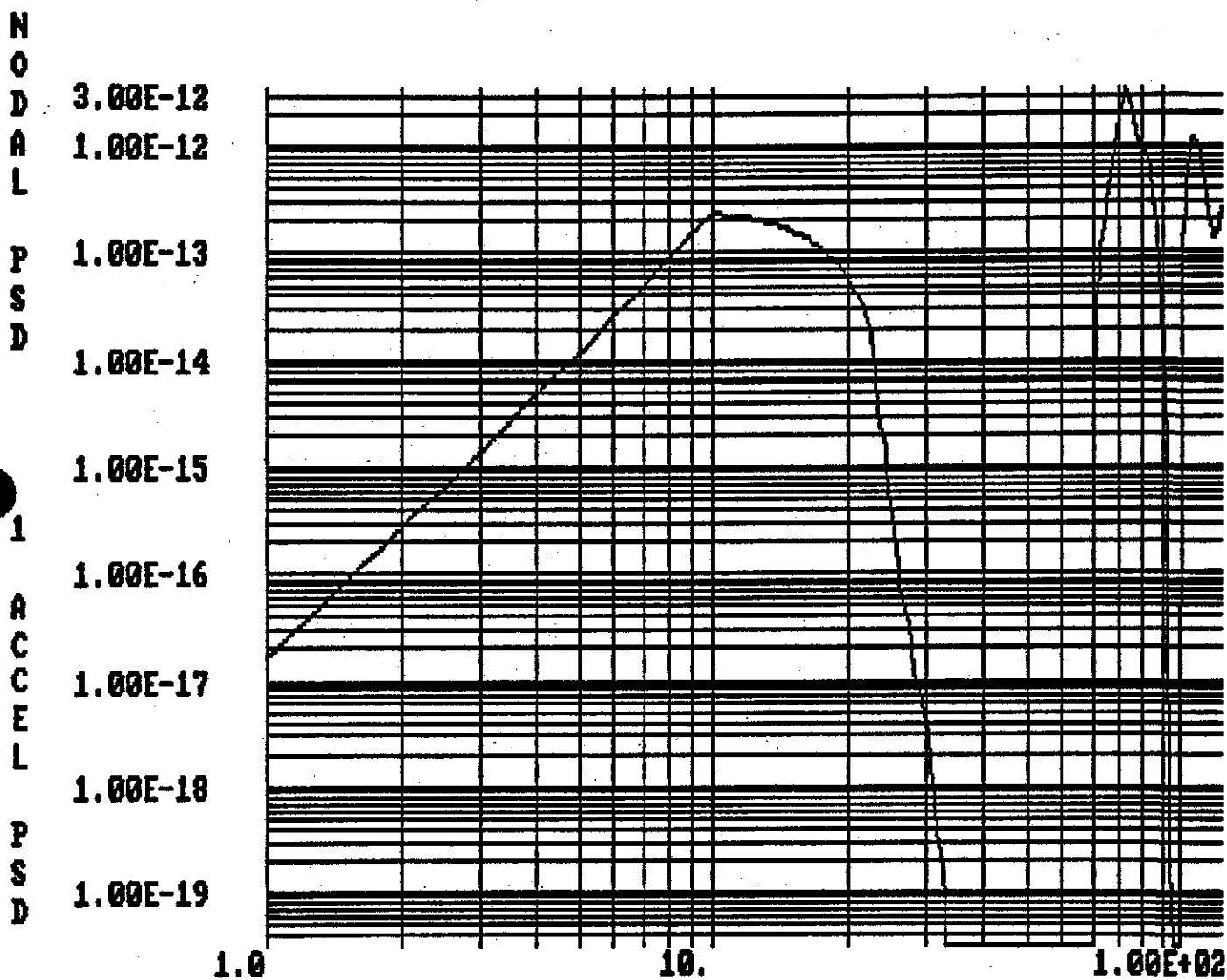
3

```

36" (UNC) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAMPING)
START3          3          1          3.0          1.0          135.0
RMS              1          1
PRINT
          2      9      9
          2     13     13
END
MODES
          1          6          99.0
          7          39         99.0
END
PSD          1          1
NODES          150          1          150          2          150          3
END
START PSD INPUT          1
  1 1 7 1 2
  6          1          0.1 1.618E-15          1.0 1.618E-17          10.0 1.618E-13
  6          -7          220.0 1.618E-13
ALL DONE

```

36" (UNC) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAM

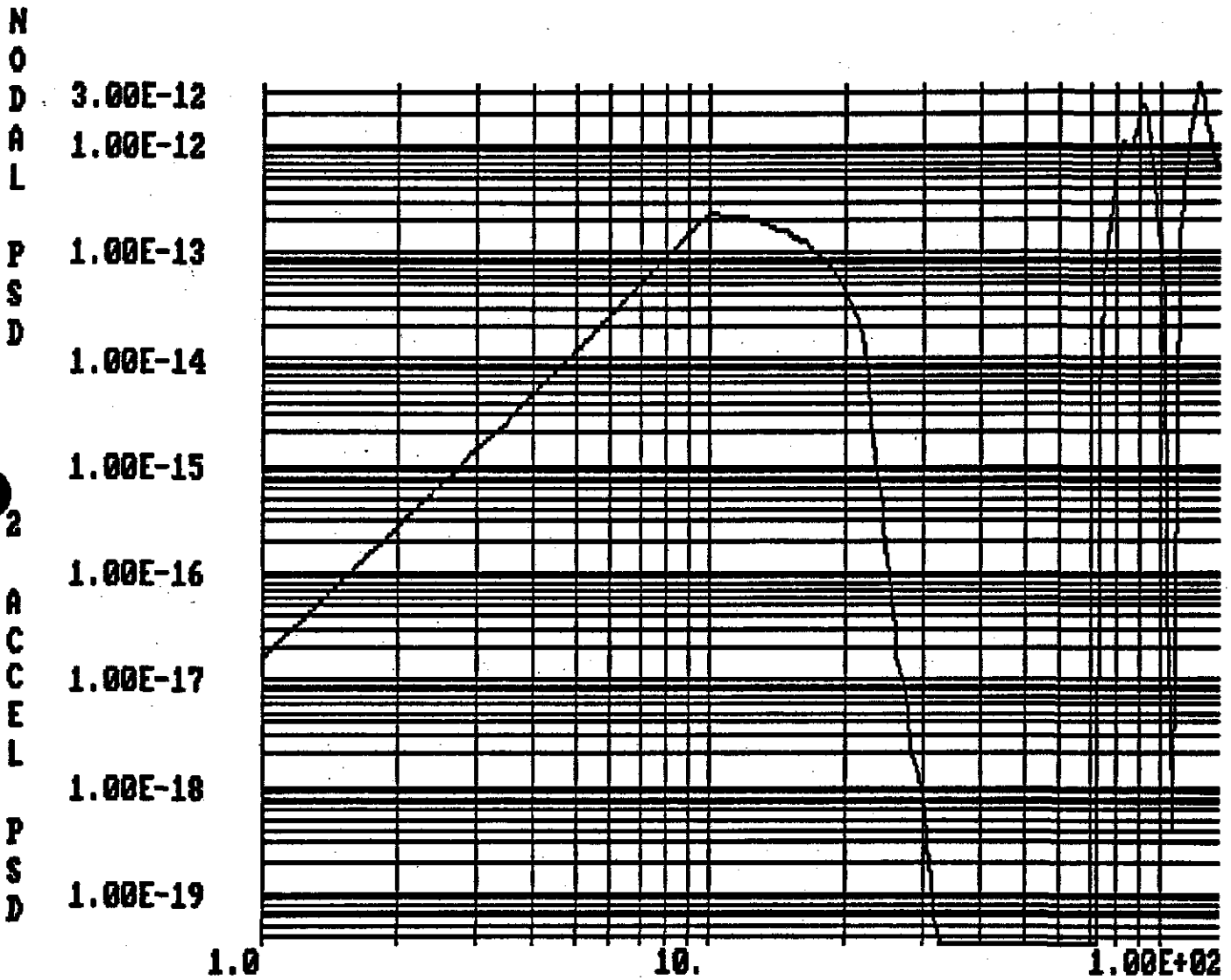


FREQUENCY (HZ)

PLOT NO =

1

36" (UNC) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAM



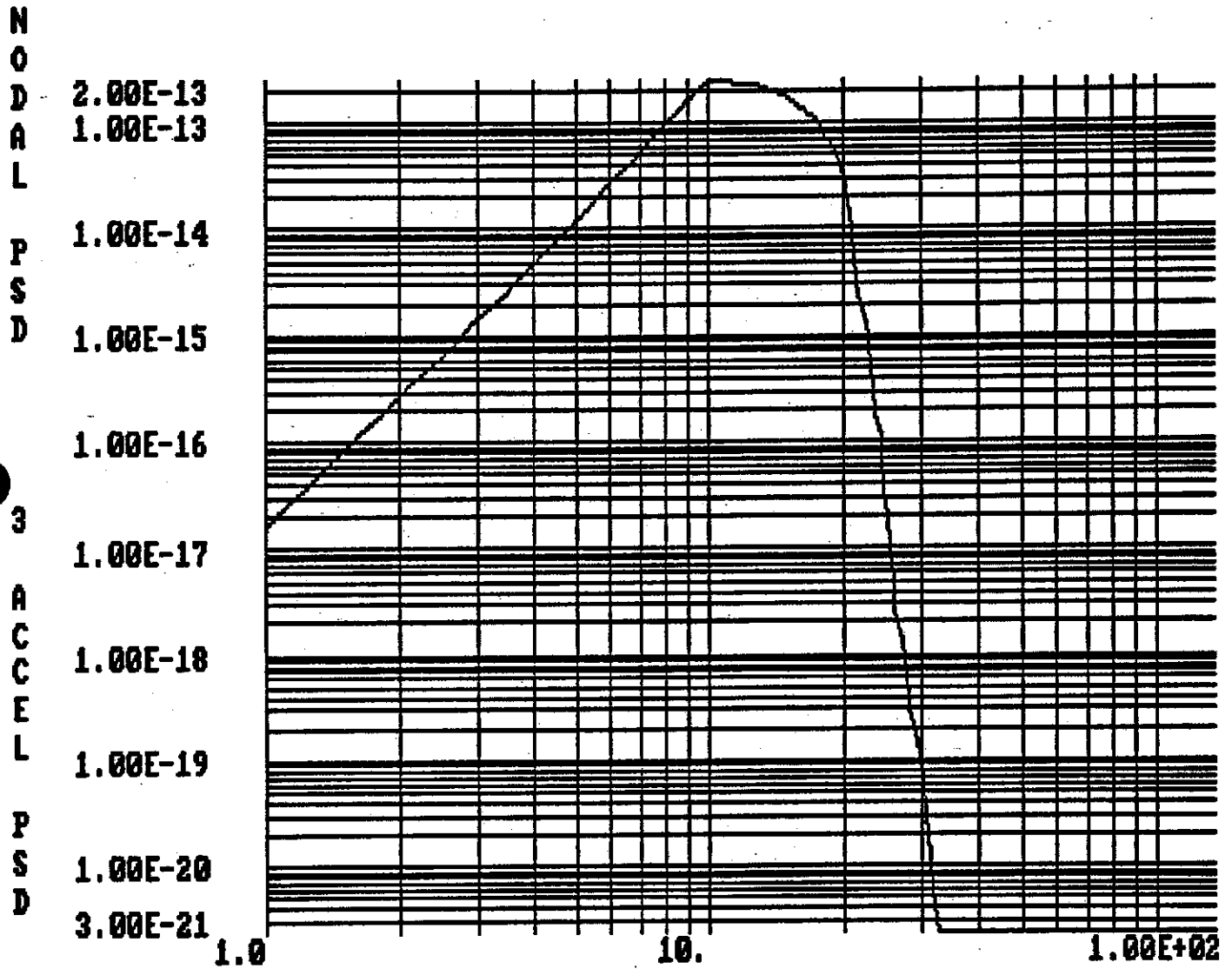
FREQUENCY (HZ)

PLOT NO =

2



36" (UNC) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAM



FREQUENCY (HZ)

PLOT NO =

3

# MODAL EXTRACTION DATA

MODE NO	EIGENVALUE ( OMEGA**2 )	NATURAL FREQUENCY	PERIOD	GENERALIZED WEIGHT	MAX TRANSL NODE-DOF V
1	7894.08	14.141	0.0707	171966.	150-3 1.00
2	12667.4	17.913	0.0558	341950.	196-2 1.00
3	14216.1	18.976	0.0527	524649.	150-1 1.00
4	20594.7	22.840	0.0438	133993.	2-2 1.00
5	25272.8	25.302	0.0395	122916.	65-3 1.00
6	31307.3	28.161	0.0355	106427.	145-3 1.00
7	33630.0	29.187	0.0343	82622.5	25-3 1.00
8	36206.4	30.284	0.0330	71051.3	195-3 1.00
9	44621.4	33.620	0.0297	37910.6	199-3 1.00
10	45389.1	33.908	0.0295	53547.7	118-3 1.00
11	49723.7	35.490	0.0282	53580.3	34-3 1.00
12	55474.3	37.486	0.0267	41257.0	3-3 1.00
13	58417.1	38.467	0.0260	45239.1	191-3 1.00
14	71599.3	42.587	0.0235	14306.4	6-3 1.00
15	78477.1	44.585	0.0224	44338.6	3-3 1.00
16	81872.7	45.540	0.0220	23067.0	191-3 1.00
17	96098.1	49.338	0.0203	14668.0	4-3 1.00
18	97959.2	49.813	0.0201	11913.6	6-2 1.00
19	103904.	51.302	0.0195	12630.4	6-2 1.00
20	115204.	54.020	0.0185	48190.7	7-3 1.00
21	127078.	56.736	0.0176	29536.6	3-3 1.00
22	137789.	59.078	0.0169	27459.7	5-3 1.00
23	150986.	61.843	0.0162	44679.4	7-3 1.00
24	171328.	65.877	0.0152	34621.1	1-2 1.00
25	178979.	67.332	0.0149	13027.1	202-3 1.00
26	201448.	71.433	0.0140	88150.0	7-1 1.00
27	207674.	72.529	0.0138	34096.6	3-3 1.00
28	220561.	74.745	0.0134	36324.9	191-3 1.00
29	230734.	76.450	0.0131	28922.4	4-3 1.00
30	244803.	78.746	0.0127	59630.8	106-3 1.00
31	250265.	79.620	0.0126	247189.	202-2 1.00
32	260353.	81.208	0.0123	23036.4	202-3 1.00
33	274543.	83.392	0.0120	37646.7	191-3 1.00
34	303256.	87.645	0.0114	35914.5	4-1 1.00
35	315096.	89.339	0.0112	26328.5	4-3 1.00
36	343573.	93.289	0.0107	32903.3	3-3 1.00
37	372428.	97.127	0.0103	16298.8	191-3 1.00
38	394805.	100.003	0.0100	27610.3	3-3 1.00
39	404534.	101.227	0.0099	11535.0	1-3 1.00
40	444404.	106.099	0.0094	11737.4	4-3 1.00
41	465883.	108.632	0.0092	82604.9	191-1 1.00
42	470600.	109.181	0.0092	23884.8	3-3 1.00
43	487561.	111.131	0.0090	12151.6	7-3 1.00
44	506029.	113.216	0.0088	81839.6	202-1 1.00
45	545487.	117.547	0.0085	29579.0	195-3 1.00

46	582327.	121.452	0.0082	11105.4	6-3	1.00
47	597086.	122.981	0.0081	18128.7	3-3	1.00
48	608155.	124.116	0.0081	28397.4	4-3	1.00
49	651093.	128.423	0.0078	27225.4	191-3	1.00
50	662347.	129.528	0.0077	29312.9	191-3	1.00

THE FOLLOWING ARE APPROX. EIGENVALUES FOR WHICH MOD

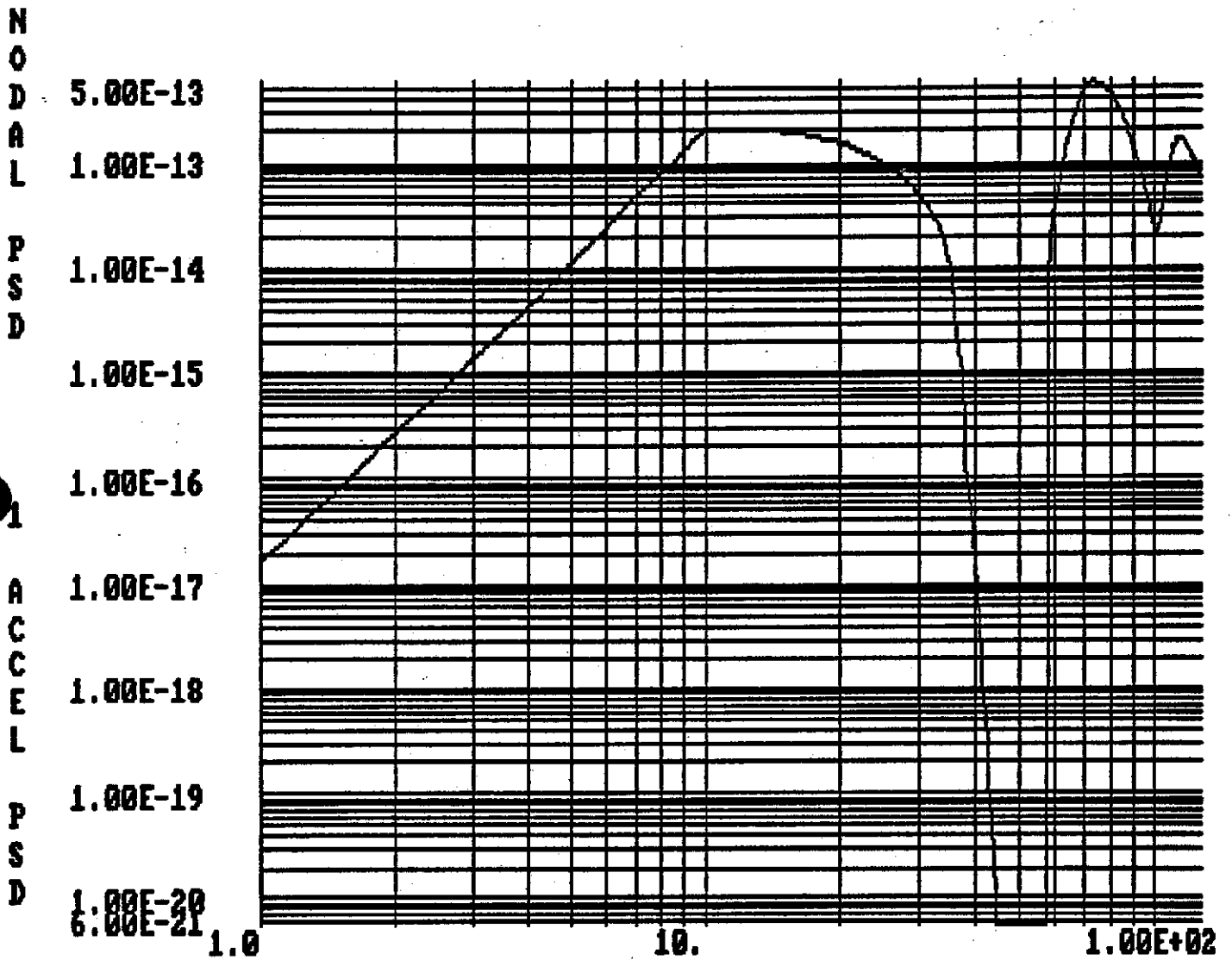
51	669097.	130.186
52	706781.	133.802
53	743172.	137.203
54	757518.	138.521
55	784796.	140.993

```

18* (UNC) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAMPING)
START3          3          1          3.0          1.0          128.0
RMS
PRINT          1
              2      9      9
              2     13     13
END
MODES
              1          6          99.0
              7          50         99.0
END
PSD          1          1
NODES          150          1          150          2          150          3
END
START PSD INPUT  1
  1 1 7 1 2
  6          1          0.1 1.618E-15          1.0 1.618E-17          10.0 1.618E-13
  6          -7         220.0 1.618E-13
ALL DONE

```

18" (UNC) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAM

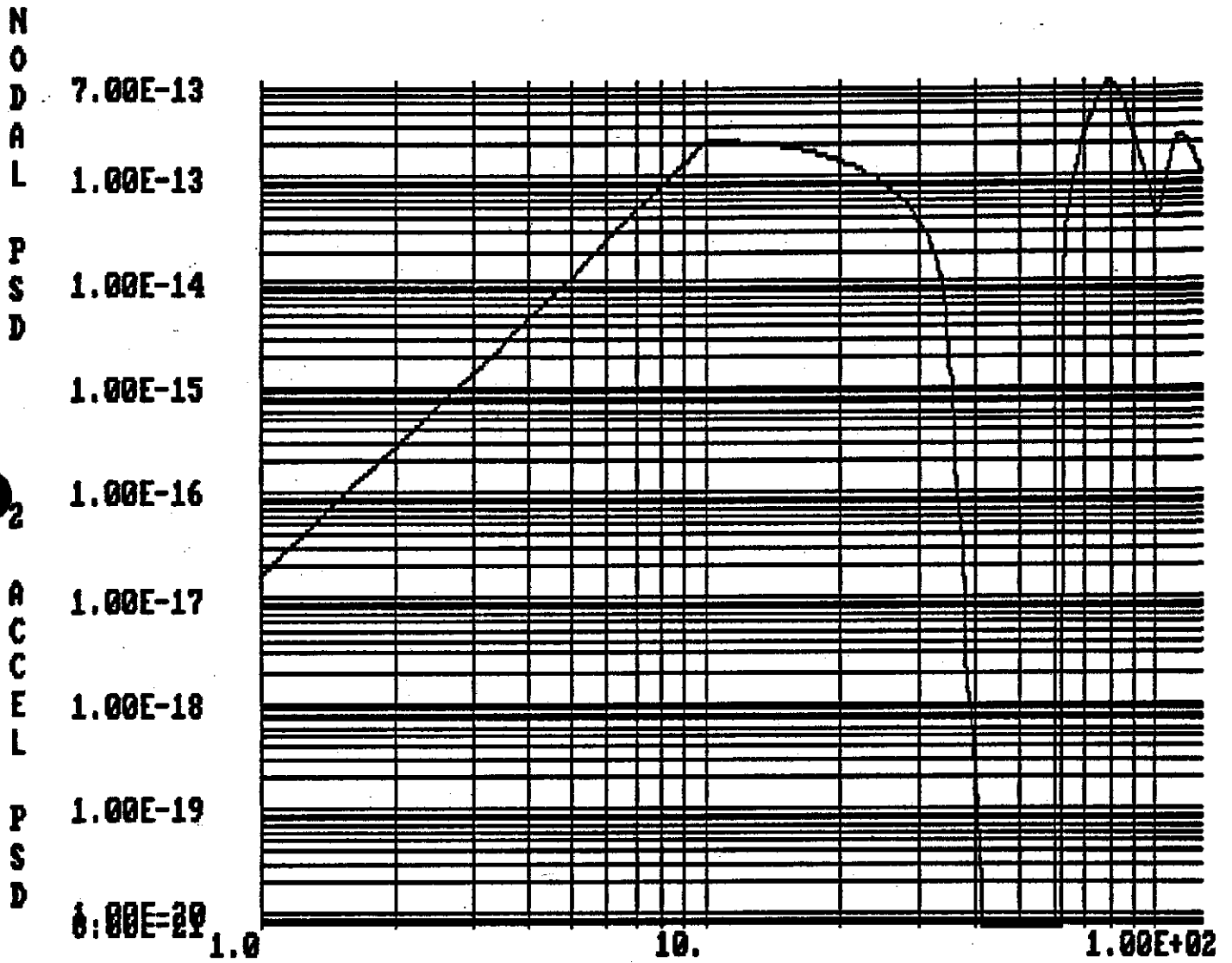


FREQUENCY (HZ)

PLOT NO =

1

18" (UNC) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAM



FREQUENCY (HZ)

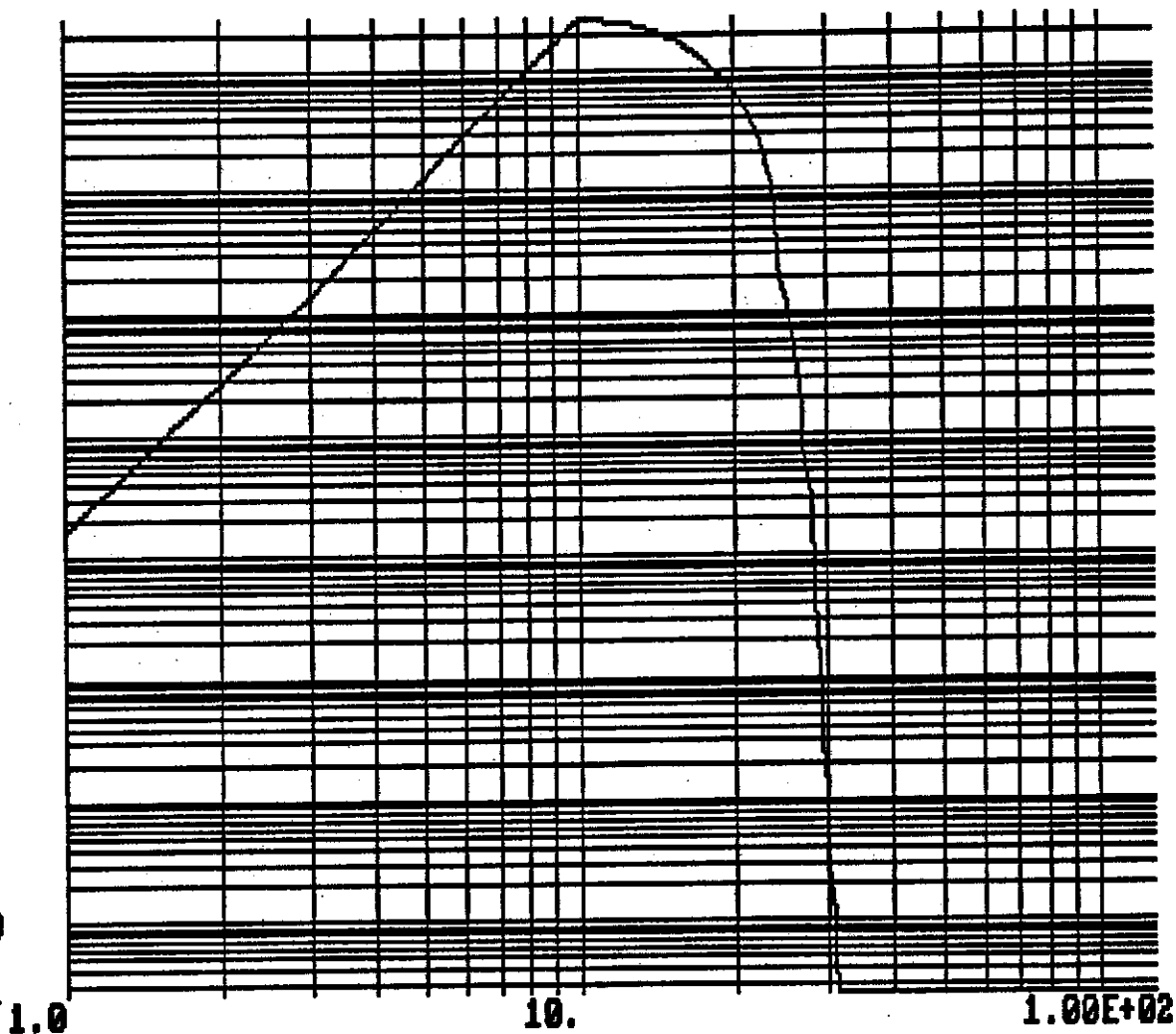
PLOT NO =

2

18" (UNC) END-PB1 RESP TO GROUND PSD (STRAIN-ENERGY DAM

N  
O  
D  
A  
L  
P  
S  
D  
3  
A  
C  
C  
E  
L  
P  
S  
D

2.00E-13  
1.00E-13  
1.00E-14  
1.00E-15  
1.00E-16  
1.00E-17  
1.00E-18  
1.00E-19  
1.00E-20  
3.00E-21



FREQUENCY (HZ)

PLOT NO =

3