

116
617

CYGNA		116
JOB NO :	840620	
DATE LOGGED :	6/7/84	
LOG NO. :	116	(6/8)
FILE :	11.1.1 Tech. Files	
CROSS REF. FILE :	11.1 Tech. Files Log	

FRB-8R

REFINED RESPONSE SPECTRA FOR

REACTOR BUILDING INTERNAL STRUCTURE

COMANCHE PEAK STEAM ELECTRIC STATION NUCLEAR POWER PLANT

8411060477 840620
PDR ADDCK 05000445
A PDR

GIBBS & HILL

RECEIVED DECEMBER '82

JUN 7 1984

CYGNA - SAN FRANCISCO

CPSES - REFINED RESPONSE SPECTRA
FOR
REACTOR BUILDING INTERNAL STRUCTURE

Presented herewith are the refined floor response spectra for the R.B. Internal Structure (references 2 and 3) based on existing response spectra (reference 1) and developed primarily for as-built piping analysis. These response spectra have been refined based upon improved curve smoothing techniques by use of computer, instead of by hand. Therefore, undue hand smoothing and digitizing have been eliminated. Also, improved interpolation has been used at lumped masses based on time history responses. The results are plotted in terms of accelerations versus frequencies for ease of use.

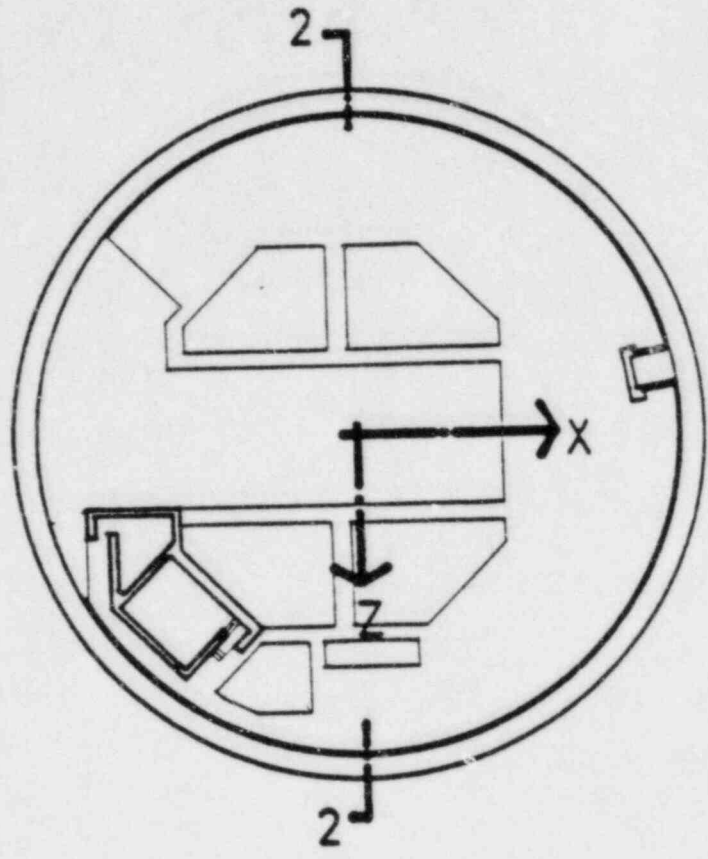
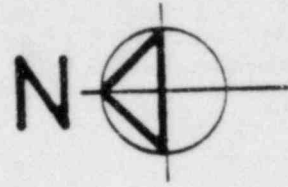
The results are presented in figures 125-B through 136-B and 101-B through 112-B which are summarized in Table nos. 2 and 3. Also the digitized values of the same spectra are included at the end of the book.

Each figure refers to a specific floor of the building, and contains three curves labeled Ax, Ay and Az, which represent the spectral accelerations in the x, y and z orthogonal directions respectively due to the combined effect of three simultaneous earthquakes at the specified % damping. Please note that Ax and Az are in the north-south and the east-west directions respectively while Ay is in the vertical direction based upon the plant's general coordinate system.

All spectra presented in this report include the coupling effects of non-symmetric structure. The curves shown are for the most critical location of the floor, considering the combined effect of translation and rotation.

References:

1. "Instructure Response Spectra for Internal Structure of R.B.," Gibbs & Hill report no. FRB-6R, August 1976.
2. "TUSI - Refined Response Spectra for R.B. Internal Structure," calculation book no. FRB-3C, Rev. 0
3. "TUSI - Computer Output for R.B. Internal Structure," computer output file no. FMI-1P Set 6, Rev. 0.



NOTE: ORIGIN OF COORDINATES IS AT EL. 805' - 6"

PLAN ELEVATION 905' 9"

TUSI

REACTOR BUILDING

Gibbs & Hill, Inc.
ENGINEER, DESIGNER, CONSTRUCTOR

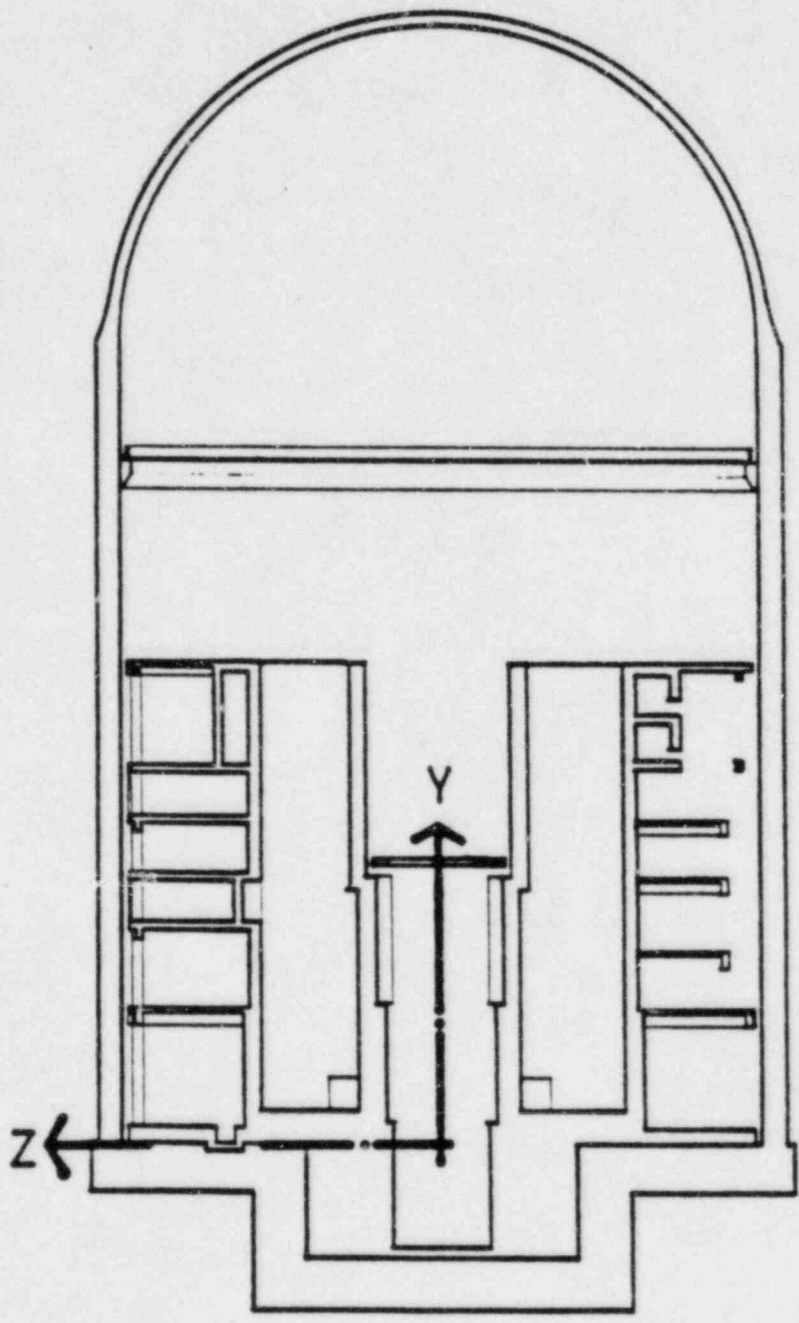
SCALE - 1/8" = 5' 0"

JOB NO 2323 - A

SKETCH 1

PLAN NO	DATE	BY	CHECKED	ISSUED FOR	APPROVALS
B/H/JDM/PC					

1-17-57



SECTION 2-2

TUSI

REACTOR BUILDING

Gibbs & Hill, Inc.
 ENGINEERS, DESIGNERS, CONTRACTORS
 NEW YORK

SCALE - 1/8" = 5'0"

PROJECT NO 2323-A

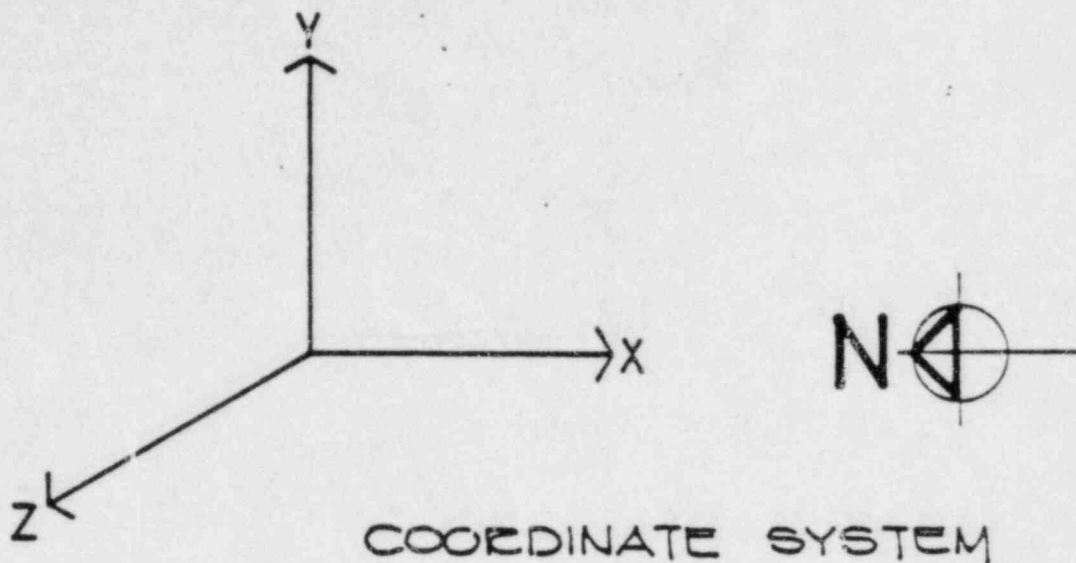
SKETCH 2

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CONTAINMENT BUILDING

1

2

3

4

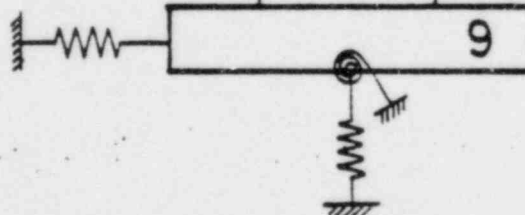
5

INTERNAL STRUCTURE

6

7

8



DYNAMIC MODEL

TUSI
REACTOR BUILDING

Gibbs & Hill, Inc. ENGINEERS, DESIGNERS, CONTRACTORS NEW YORK	SCALE -
JOB NO. 2323-A	SKETCH 3

DATE	BY	CHKD	APP'D	REV	DATE	BY	CHKD	APP'D	REV	DATE	BY	CHKD	APP'D	REV

APPROVALS

ISSUED FOR

NODAL COORDINATE			
MASS POINT	X (FT.)	Y (FT.)	Z (FT.)
1	0	246.6	0
2	0	197.0	0
3	0	145.0	0
4	0	87.75	0
5	0	29.25	0
6	9.45	89.83	4.44
7	-0.28	55.94	8.27
8	-5.87	26.98	2.42
9	2.10	-7.75	0.38

TUSI
 REACTOR BUILDING

Grube & Hill Inc.
 GENERAL ENGINEERING CONTRACTORS
 2823

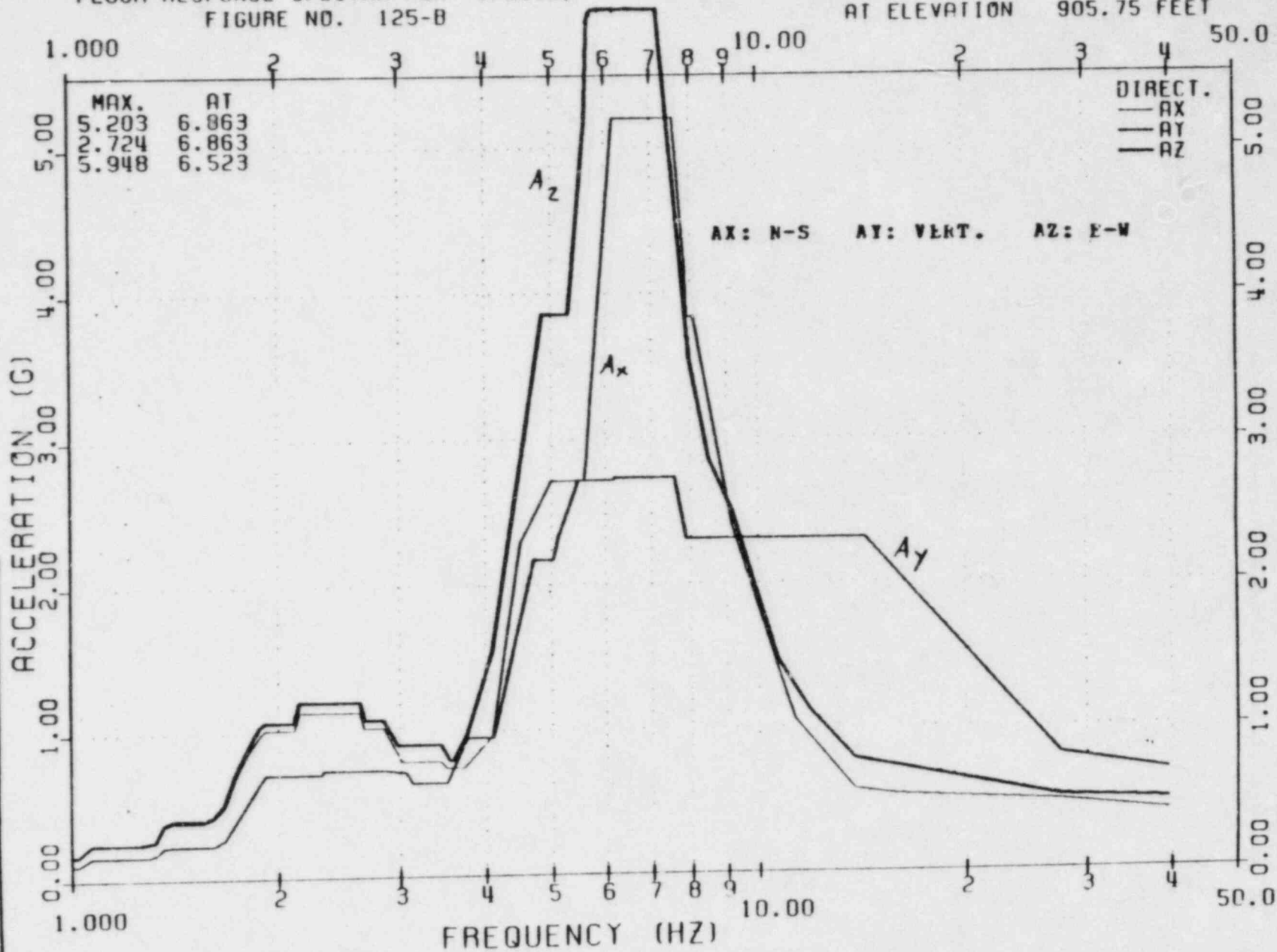
SCALE -
 TABLE 1

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
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TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR 1/25SSE;
FIGURE NO. 125-B

DAMPING = 0.01
AT ELEVATION 905.75 FEET



C 01/07/90
DATE: 01/18/90

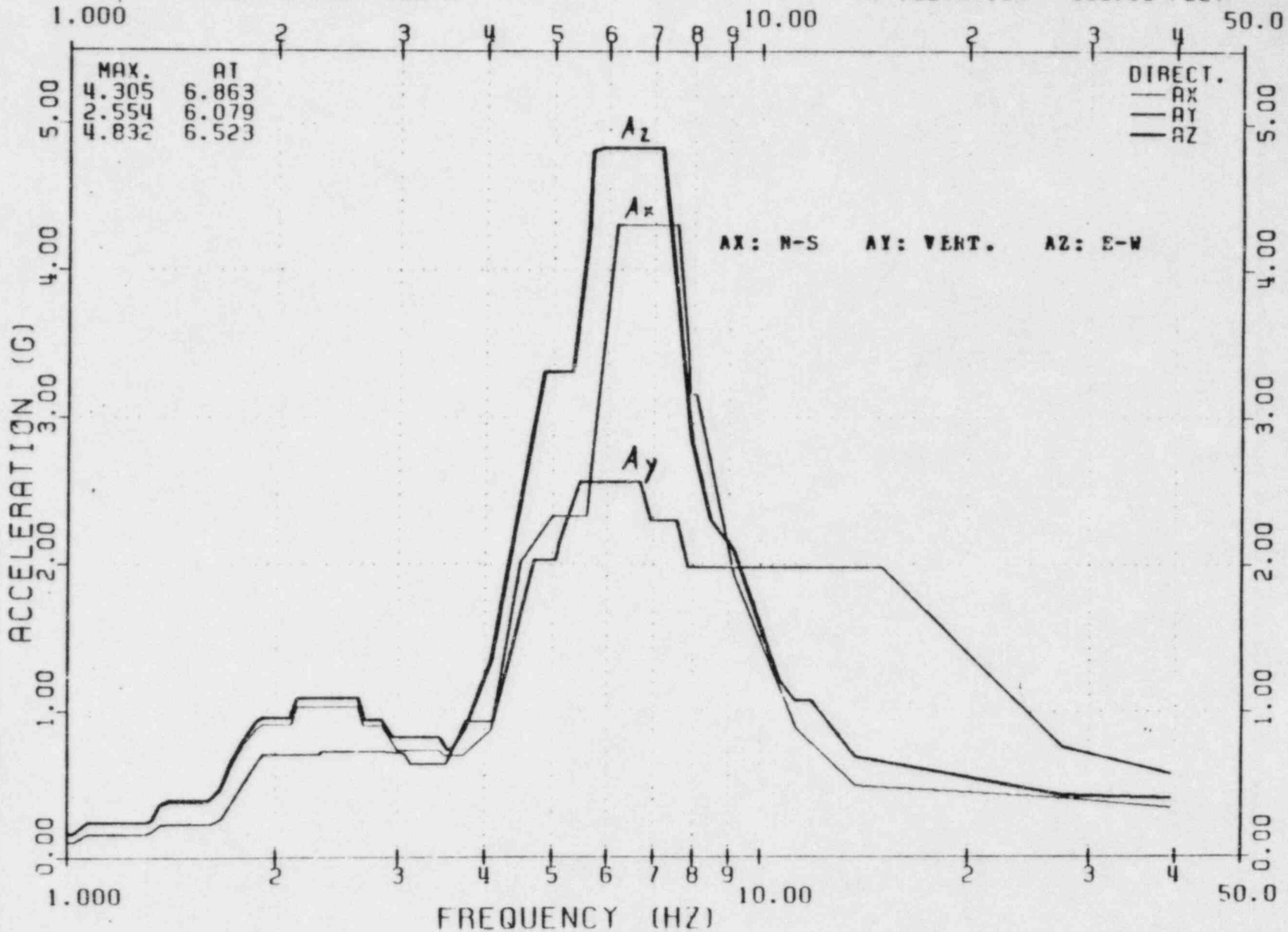
135000 FPM

135000 FPM

TUSI-R.B. INTERNAL STR.
REFINED RESPONSE SPECTRA
GIBBS & HILL, INC.
ENGINEERS, DESIGNERS, CONSTRUCTORS
JOB NO. 2323
FIGURE-125 B

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.
 FLOOR RESPONSE SPECTRA FOR 1/2SSE;
 FIGURE NO. 126-B

DAMPING = 0.0!
 AT ELEVATION 885.50 FEET



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2573

FIGURE-126 B

ISSUED FOR

REVISIONS

DATE

BY

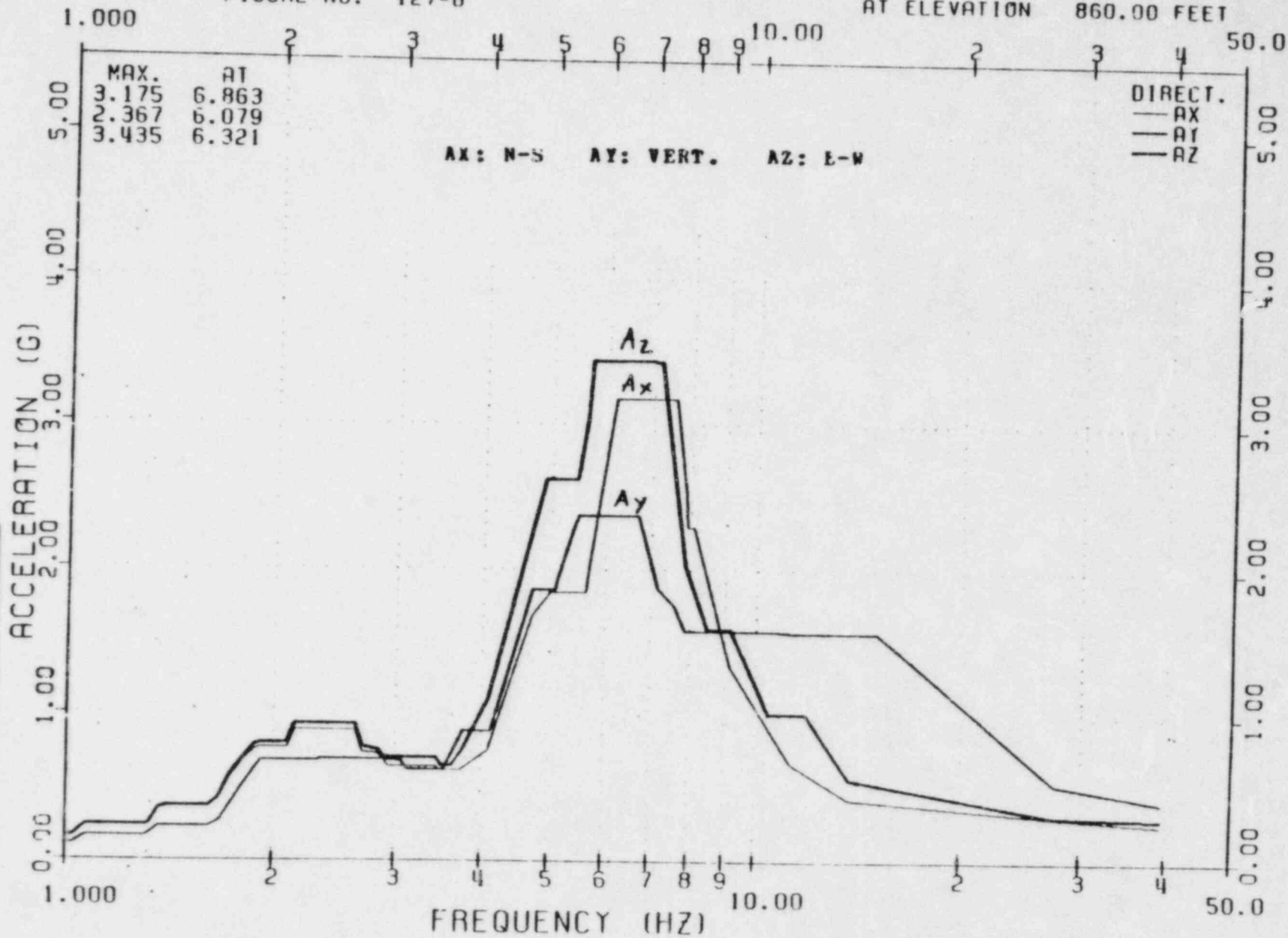
NO.

0 21/87 ADP CRT

13546

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.
 FLOOR RESPONSE SPECTRA FOR 1/2SSE;
 FIGURE NO. 127-B

DAMPING = 0.01
 AT ELEVATION 860.00 FEET

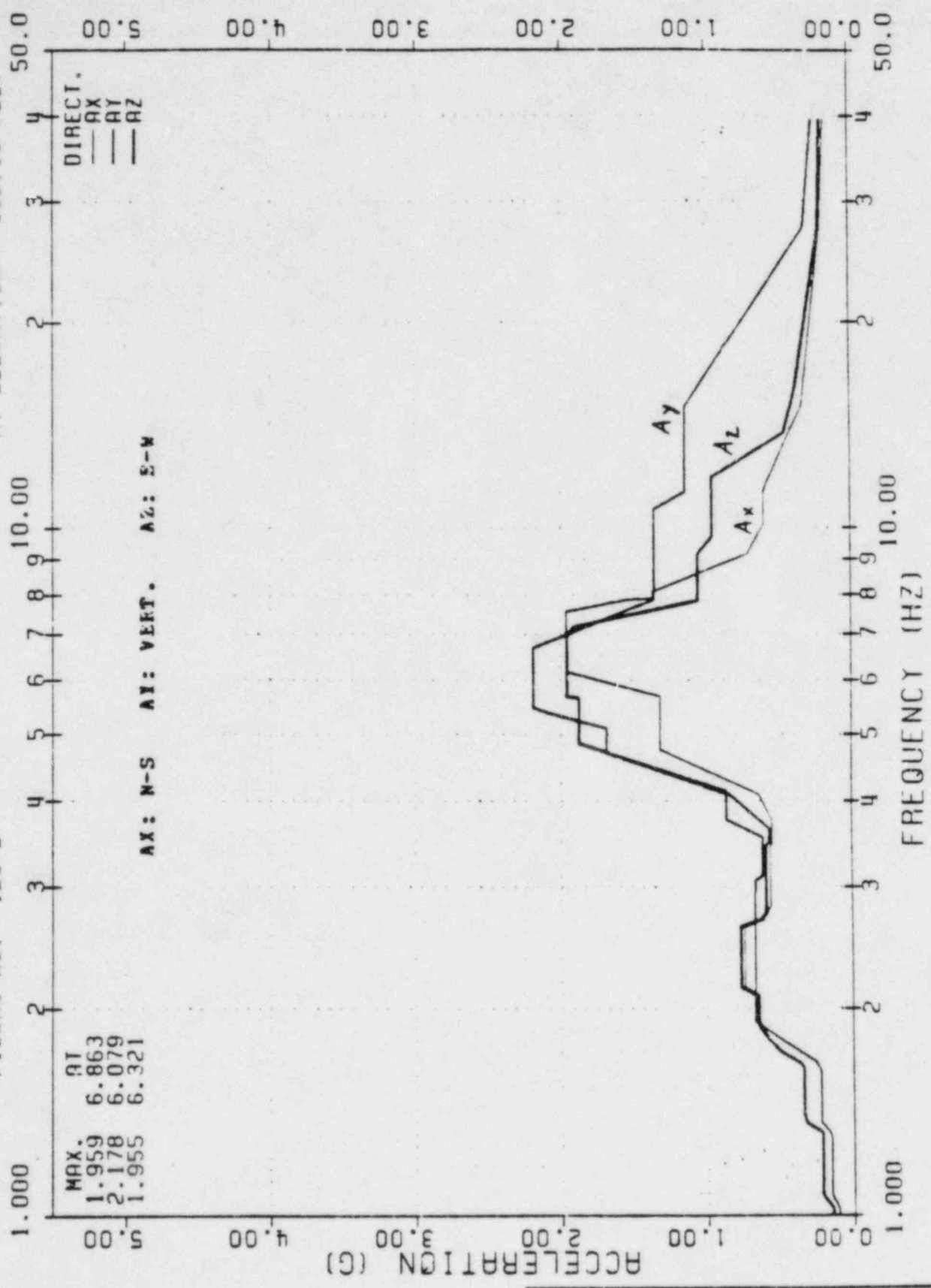


O.D. 1/2 SSE
 DATE P.L.D./C.M.D./I.D.
 APPROVED BY
 ISSUED FOR
 TUSI-R.B. INTERNAL STR.
 REFINED RESPONSE SPECTRA
 GIBBS & HILL, INC.
 ENGINEERS, DESIGNERS, CONSULTANTS
 FIGURE-127B

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR 1/25SE;
 CAMPING = 0.01
 AT ELEVATION 832.50 FEET

FIGURE NO. 128-B

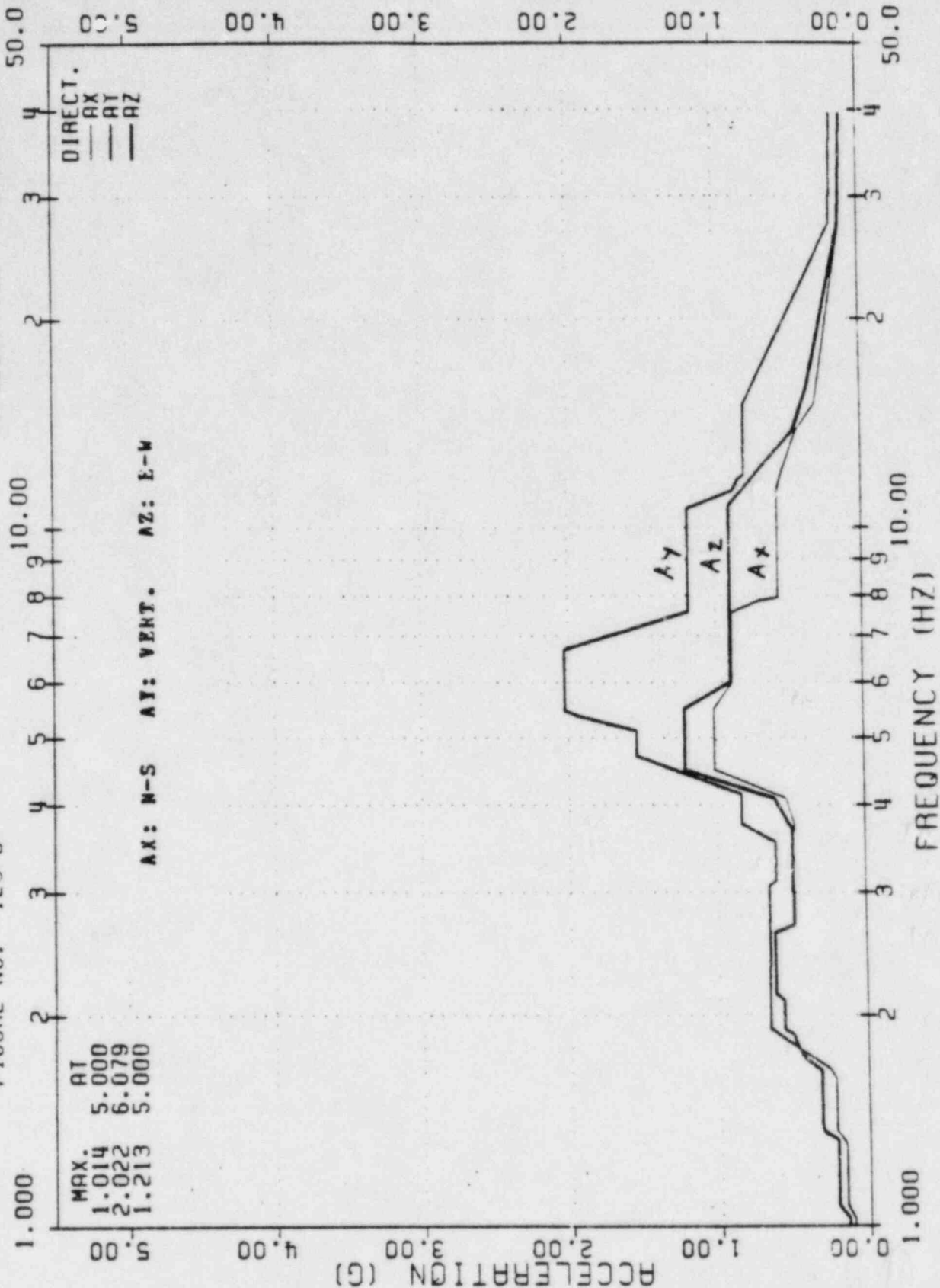


TUSI-R.B. INTERNAL STR.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC.	
ENGINEERS, DESIGNERS, CONSTRUCTORS	
NEW YORK	
JOB NO. 2323	FIGURE-128 B

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR 1/255E;
 FIGURE NO. 129-B

DAMPING = 0.01
 AT ELEVATION 808.00 FEET



TUSI-R.B. INTERNAL STR.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC.	
ENGINEERS, DESIGNERS, CONSTRUCTORS	
ISSUED FOR	FIGURE-129 B
JOB NO. 2323	

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APPROVED									

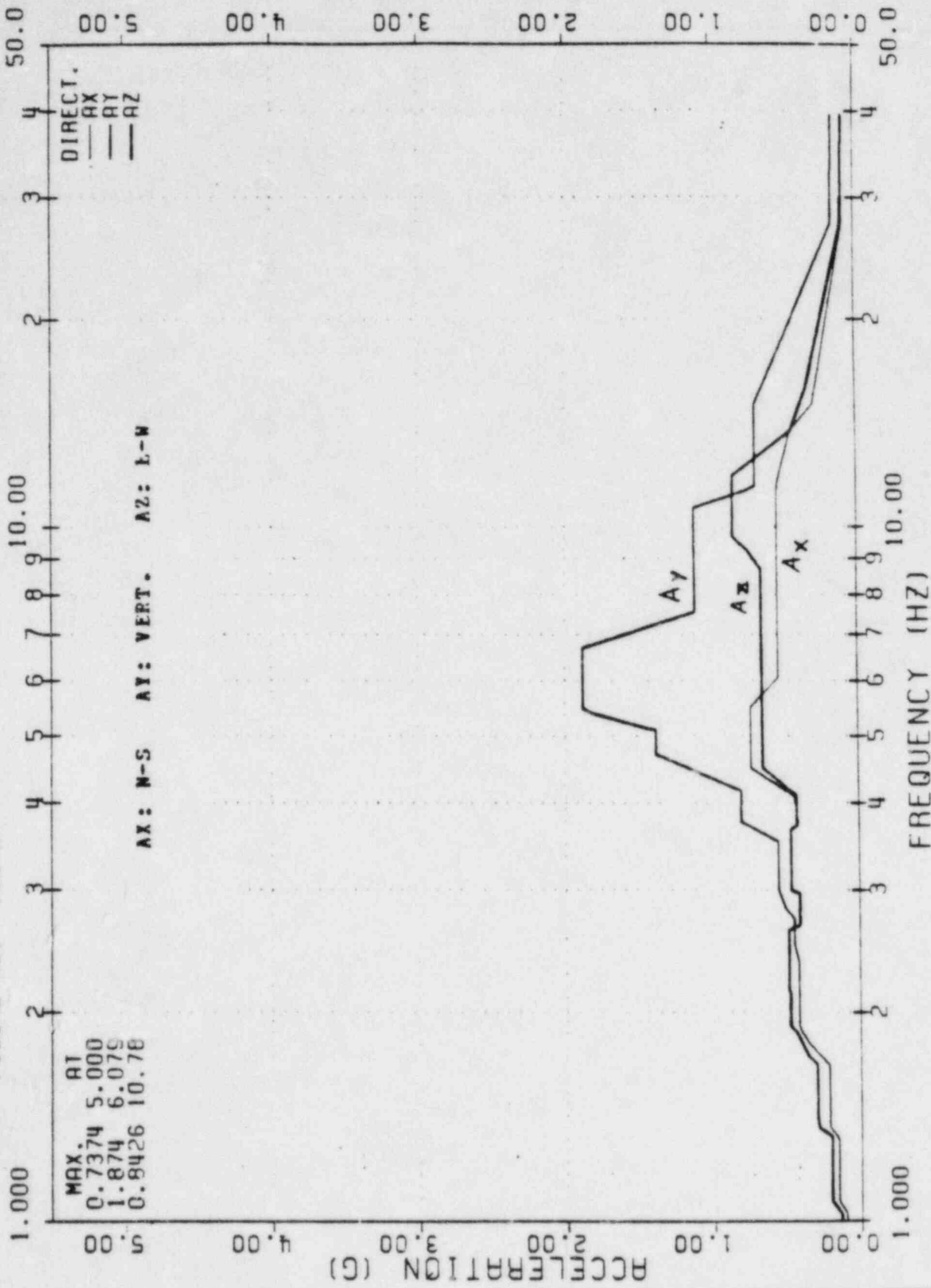
TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR 1/2SSE;

FIGURE NO. 130-B

DAMPING = 0.01

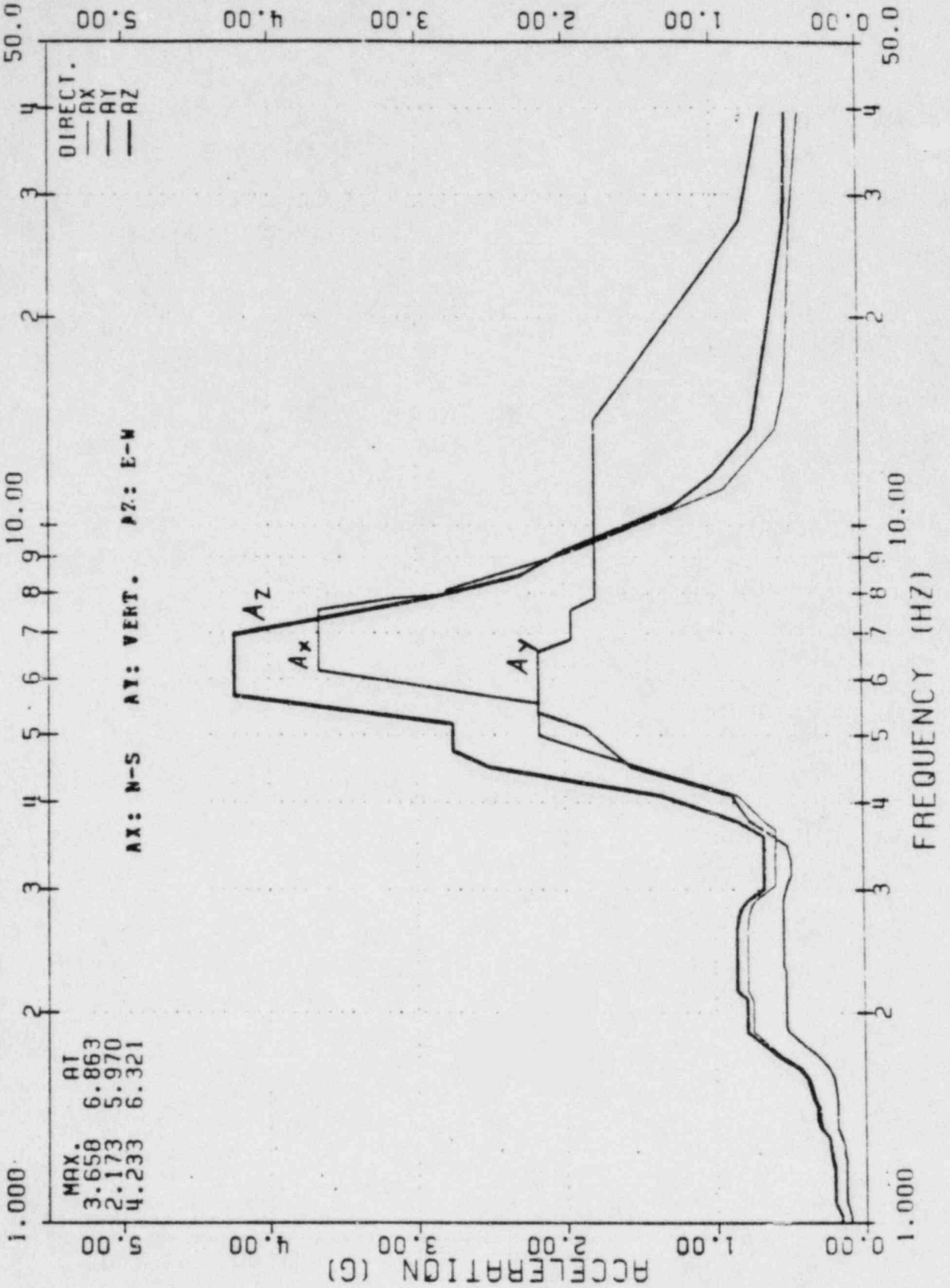
AT ELEVATION 783.58 FEET



TUSI-R.B. INTERNAL STR.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC. ENGINEERS, DESIGNERS, CONSTRUCTORS SINCE 1926	FIGURE-130 B
ISSUE NO. DATE PLTD. CHRG. LOG	ISSUED FOR
APPROVED	JOB NO. 2323

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR 1/25SE;
 DAMPING = 0.02
 AT ELEVATION 905.75 FEET
 FIGURE NO. 131-B



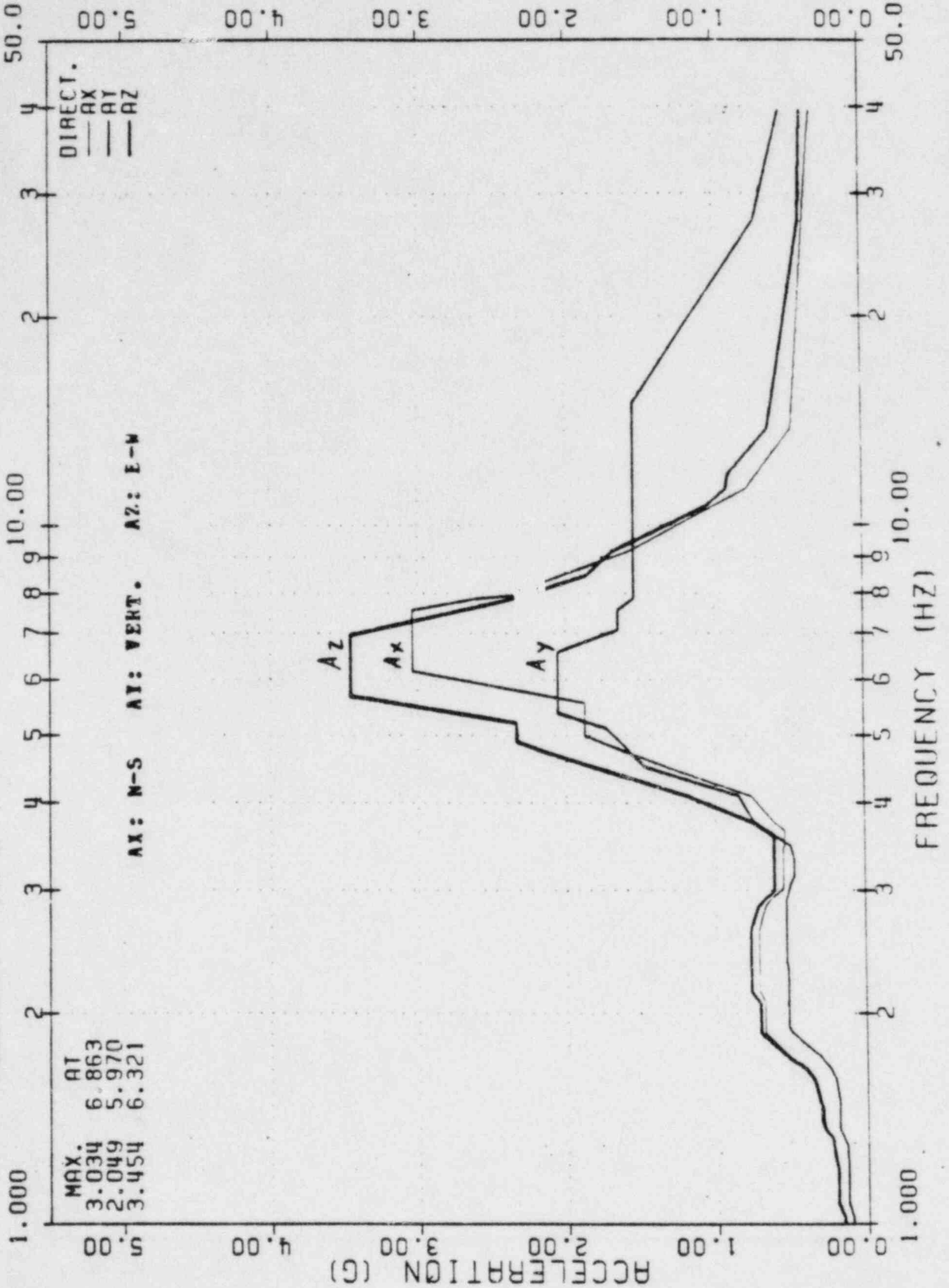
TUSI-R.B. INTERNAL STR.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC.	
ENGINEERS, DESIGNERS, CONSTRUCTORS	
JOB NO. 2323	FIGURE-131 B

ISSUE NO.	DATE	PLD.	CHKD.	LD.	APPROVAL	ISSUED FOR
0	01/07	ADP	WT			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR 1/25SE;
FIGURE NO. 132-B

DAMPING = 0.02
AT ELEVATION 285.50 FEET



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.
ENGINEERS, DESIGNERS, CONSTRUCTORS
1961 1000

JOB NO. 2323

FIGURE-132 B

DATE PLTD. CHKD. 100

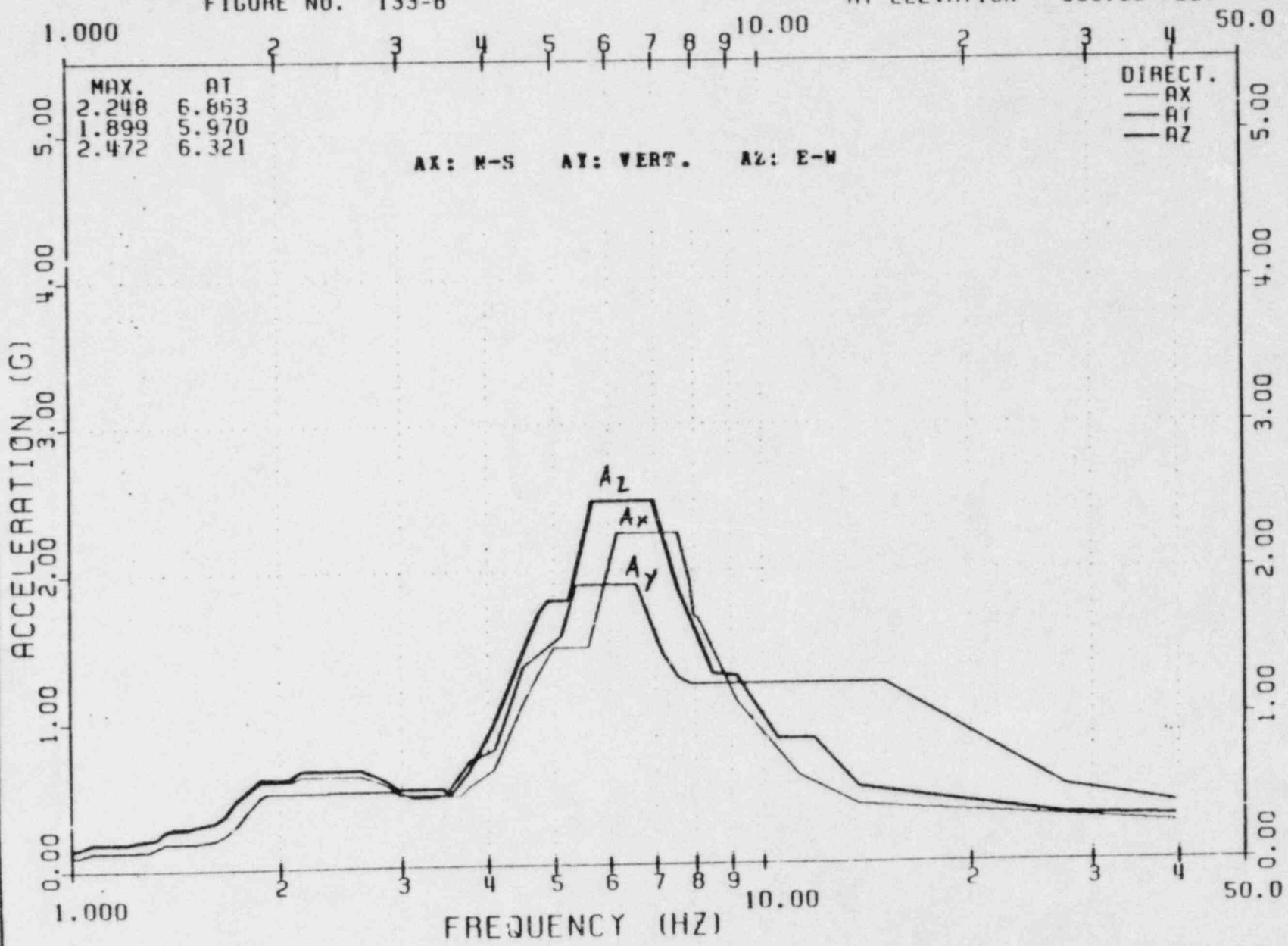
ISSUE FOR

APPROVALS

0 to 87 days out
 2210 DATE 11/18/60
 300
 13500 FRP
 GIBBS & HILL, INC.
 ENGINEERS, DESIGNERS, CONSTRUCTORS
 NEW YORK
 JOB NO. 2323
 FIGURE-133B

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR 1/2SSE; DAMPING = 0.02
 FIGURE NO. 133-B AT ELEVATION 860.00 FEET



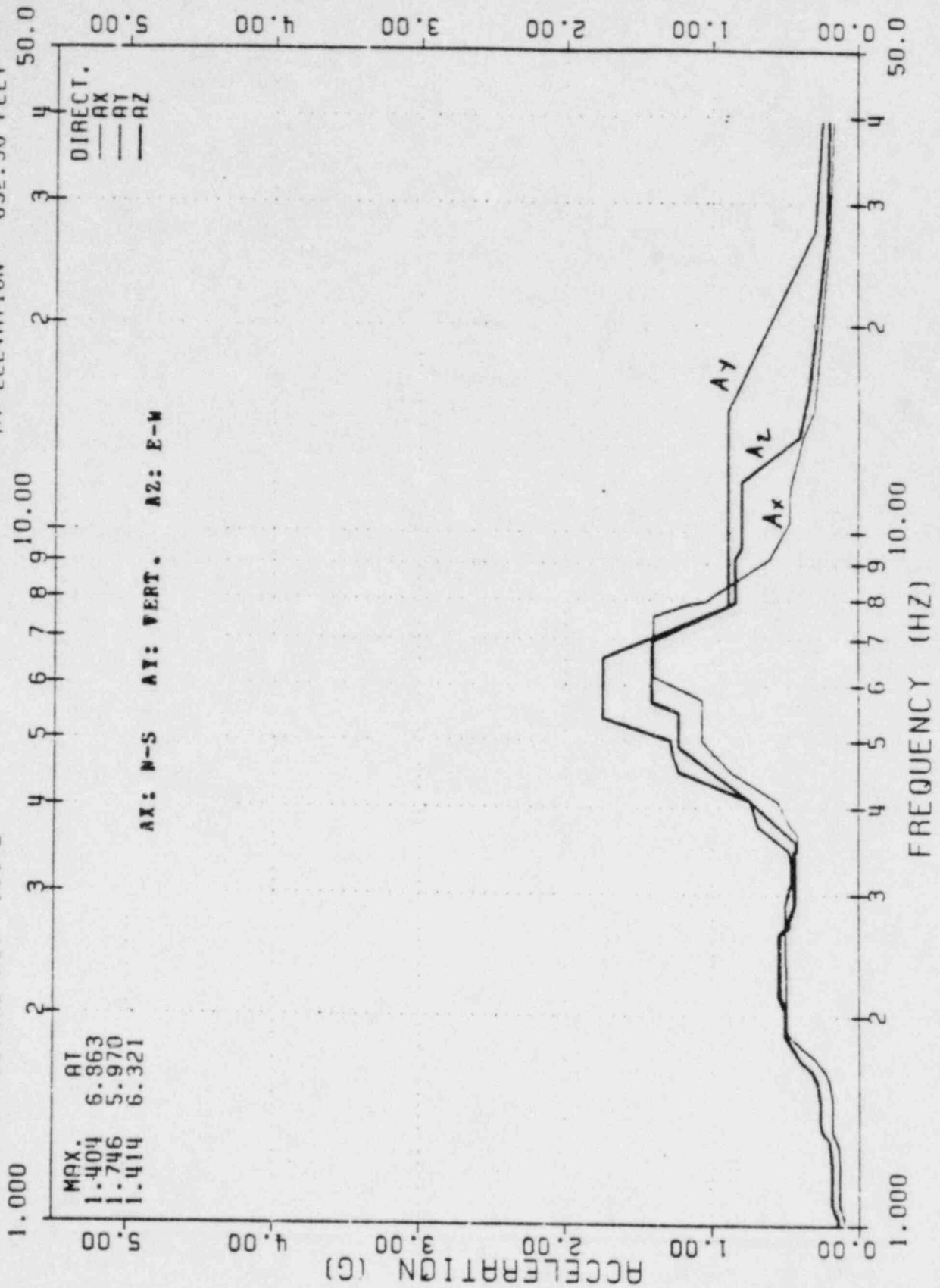
TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR 1/25 SSE;

FIGURE NO. 134-B

DAMPING = 0.02

AT ELEVATION 832.50 FEET



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.
 ENGINEERS, DESIGNERS, CONSTRUCTORS

FIGURE-134 B

DATE P.L.D. CHG. FOR

APPROVALS

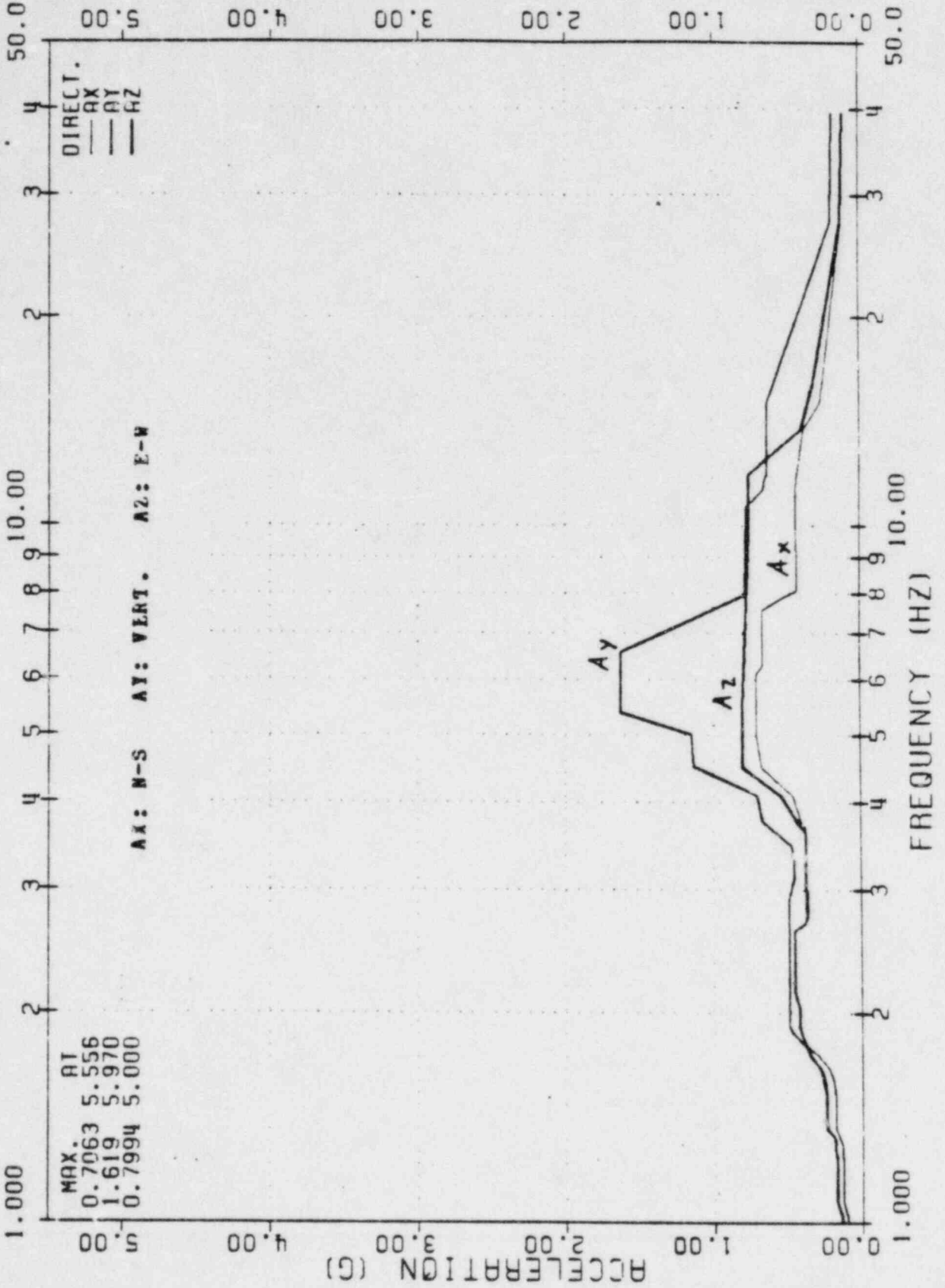
ISSUED FOR

JOB NO 2323

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR 1/25SE;
FIGURE NO. 135-B

DAMPING = 0.02
AT ELEVATION 808.00 FEET



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

NEW YORK

ISS. NO. 2323

FIGURE-135 B

0 1/2" ADP WT

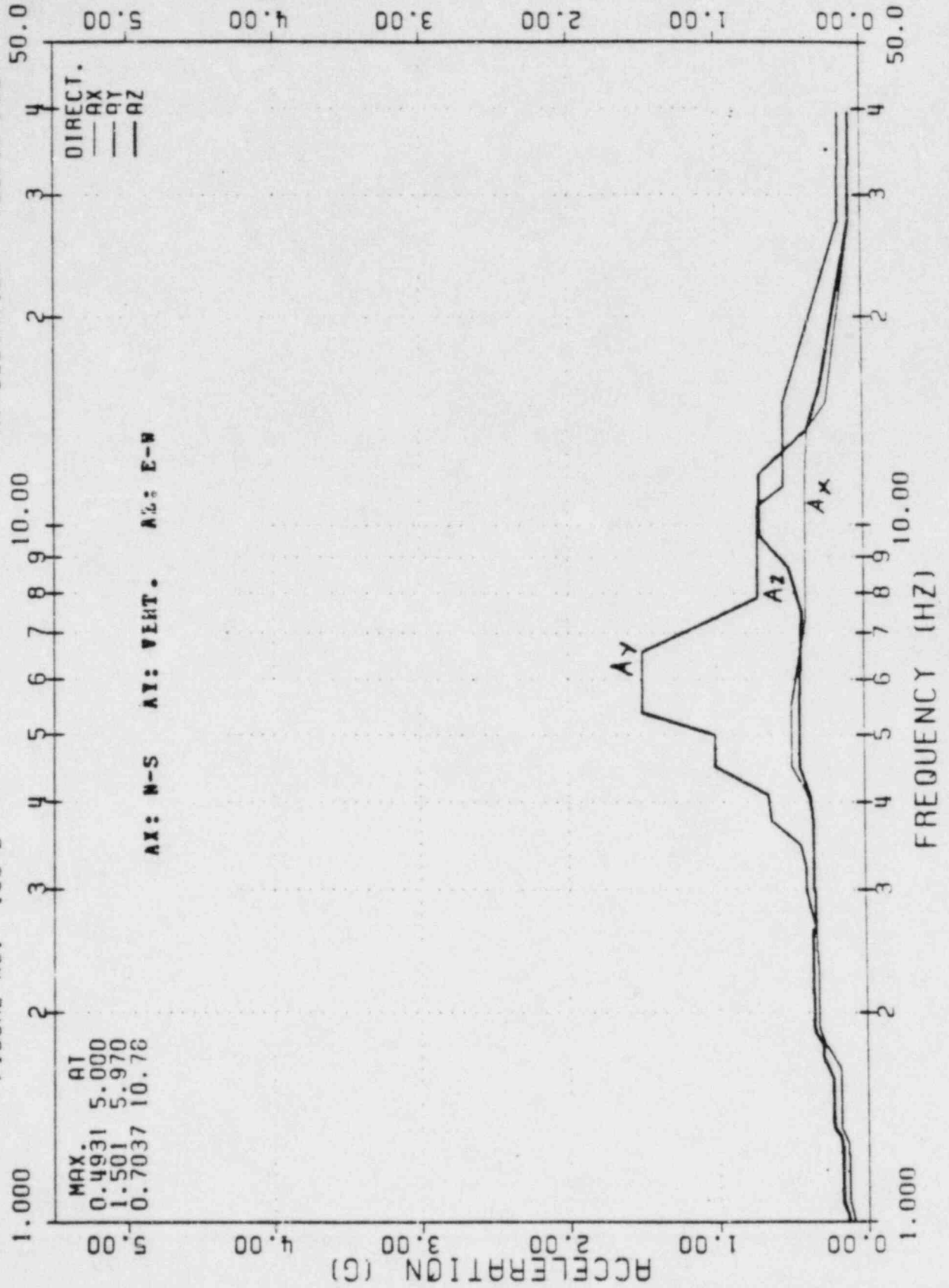
ISSUE DATE P. 10, CHAS. 1000

ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR 1/25SE:
 FIGURE NO. 136-B

DAMPING = 0.02
 AT ELEVATION 783.58 FEET

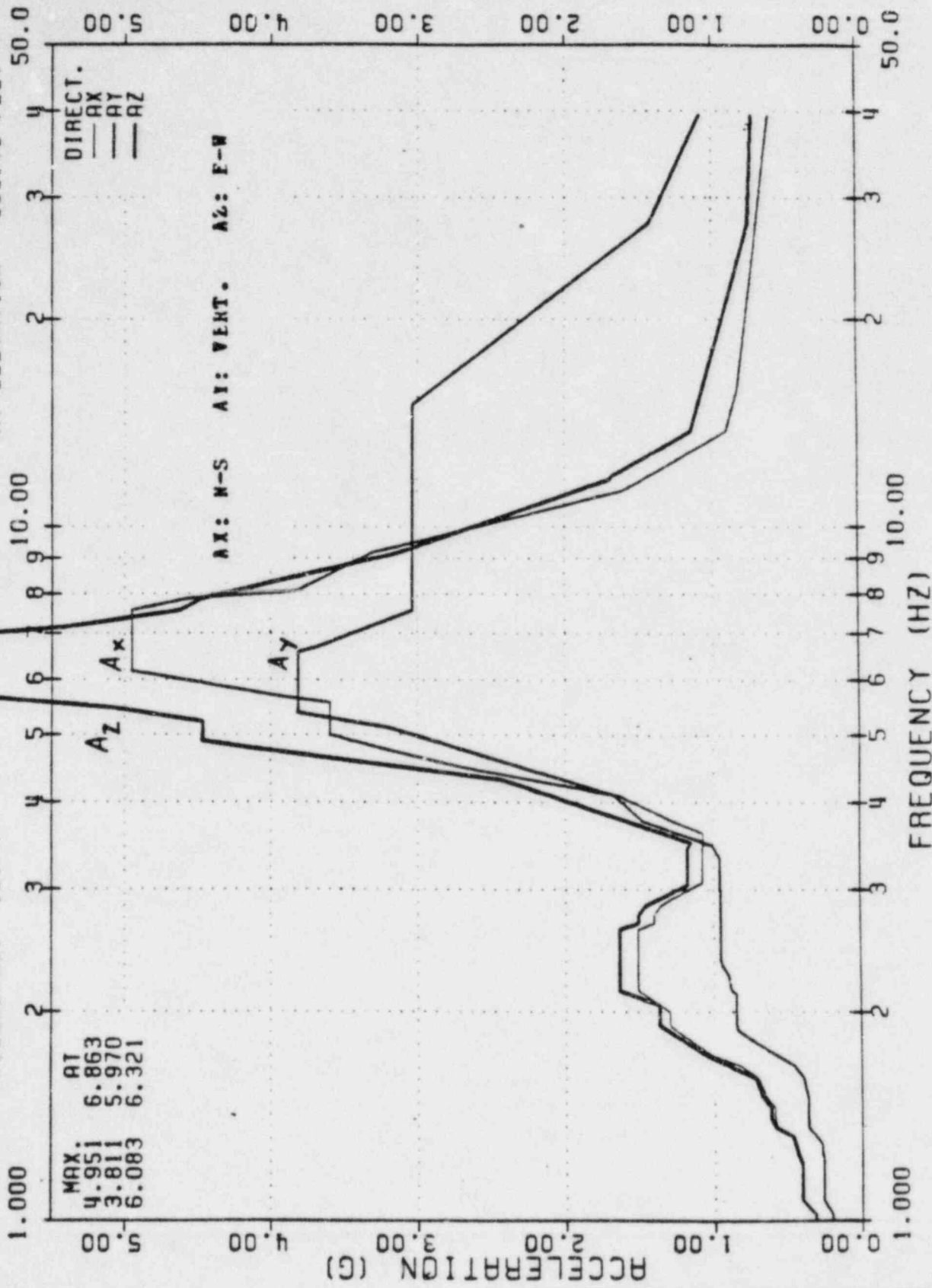


TUSI-R.B. INTERNAL STR.	
REFINED RESPONSE SPECTRA	
GIBBS & MILL, INC.	
ENGINEERS, DESIGNERS, CONSTRUCTORS	
ISSUED FOR	JOB NO. 2323
FIGURE-136 B	

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TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSE;
 DAMPING = 0.02
 AT ELEVATION 905.75 FEET
 FIGURE NO. 101-F



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.
 ENGINEERS, DESIGNERS, CONTRACTORS

FIGURE-101 B

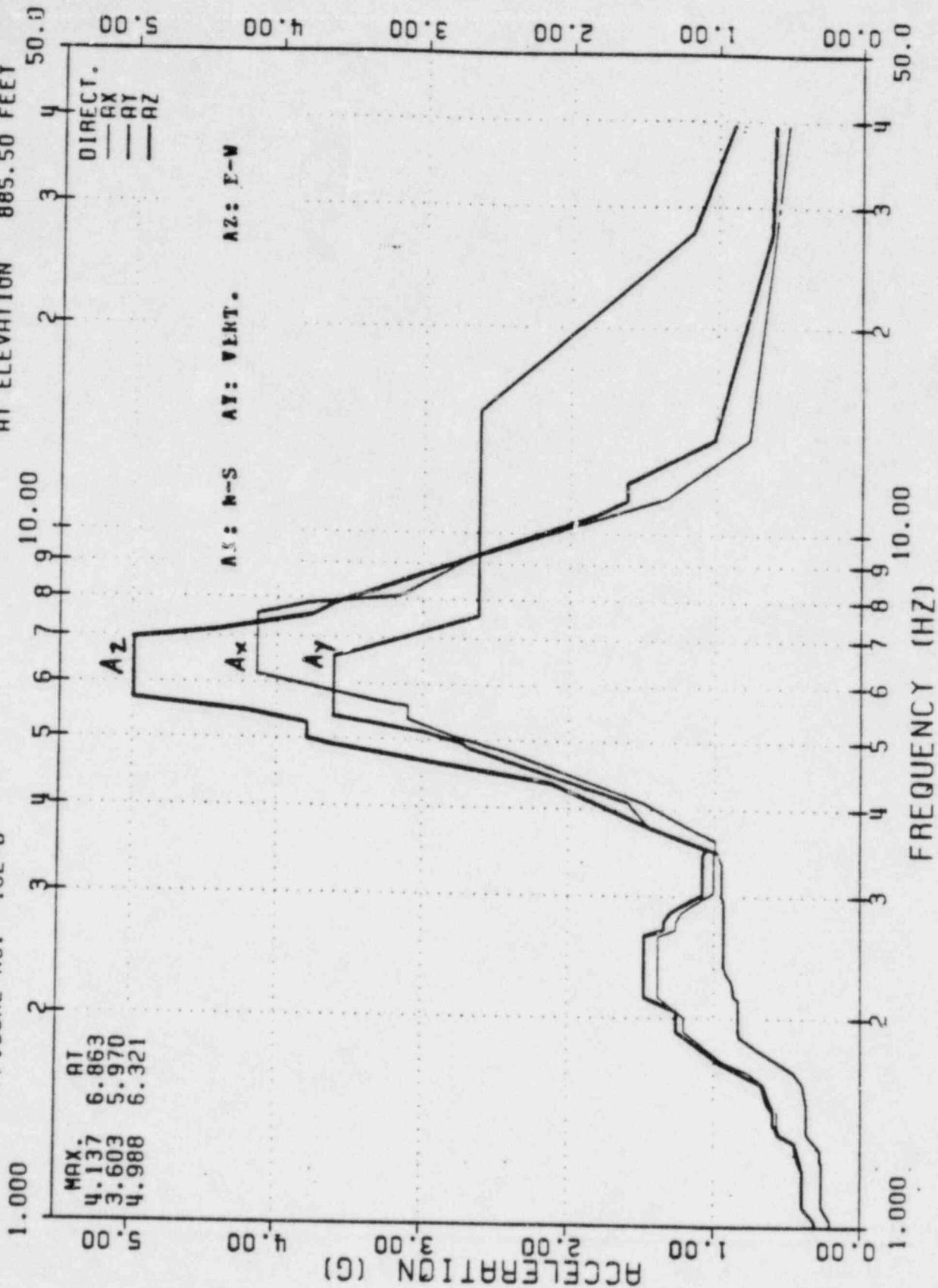
JOB NO 2523

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSE;
FIGURE NO. 102-B

DAMPING = 0.02

AT ELEVATION 885.50 FEET

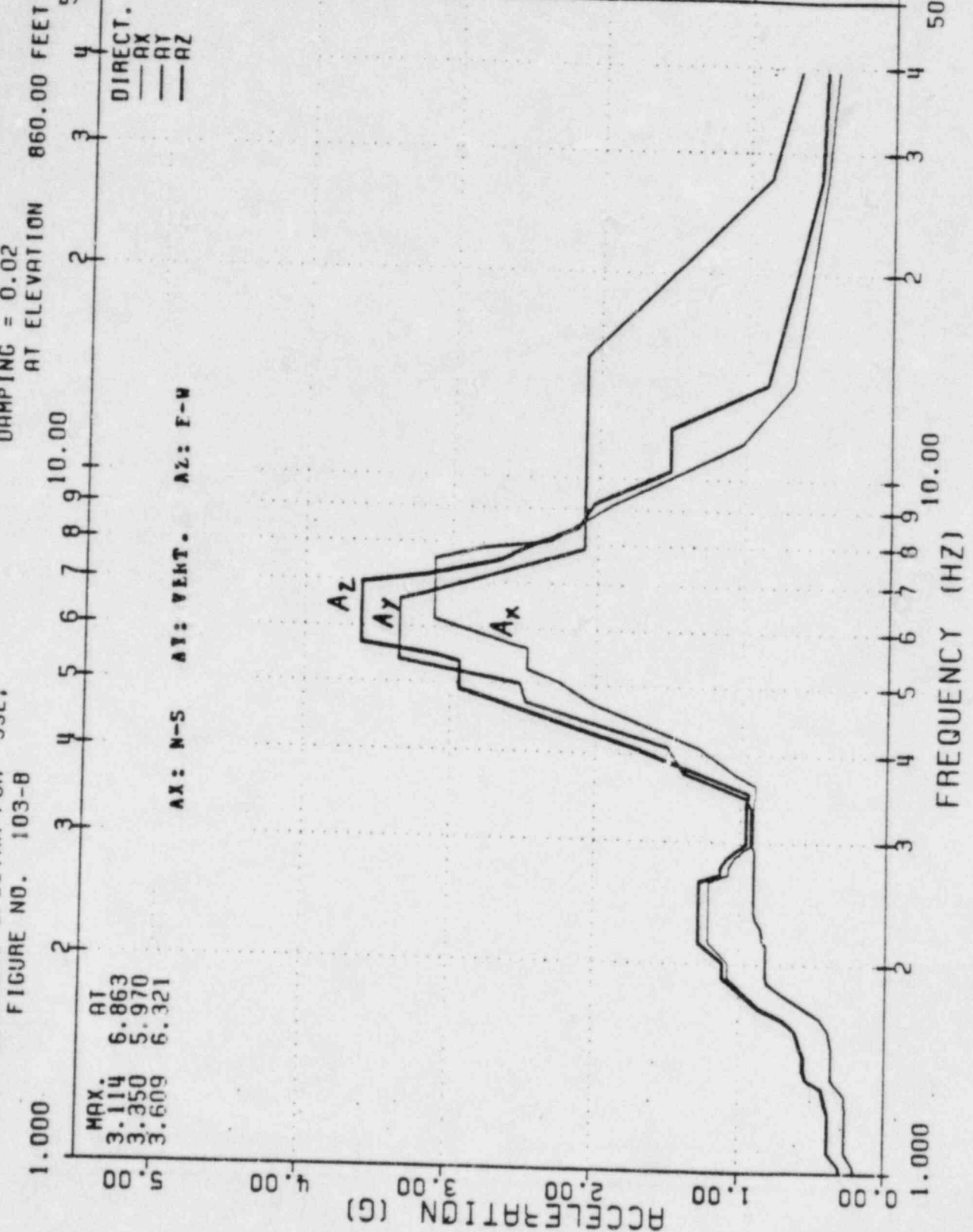


TUSI-R.B. INTERNAL STR.	
REFINED RESPONSE SPECTRA	
GIBBS & MILL, INC.	
ENGINEERS, DESIGNERS, CONSTRUCTORS	
JOB NO. 2323	
FIGURE-102 B	

ISSUE	DATE	BY	CHKD.	APP'D.	ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSE;
 DAMPING = 0.02
 AT ELEVATION 860.00 FEET



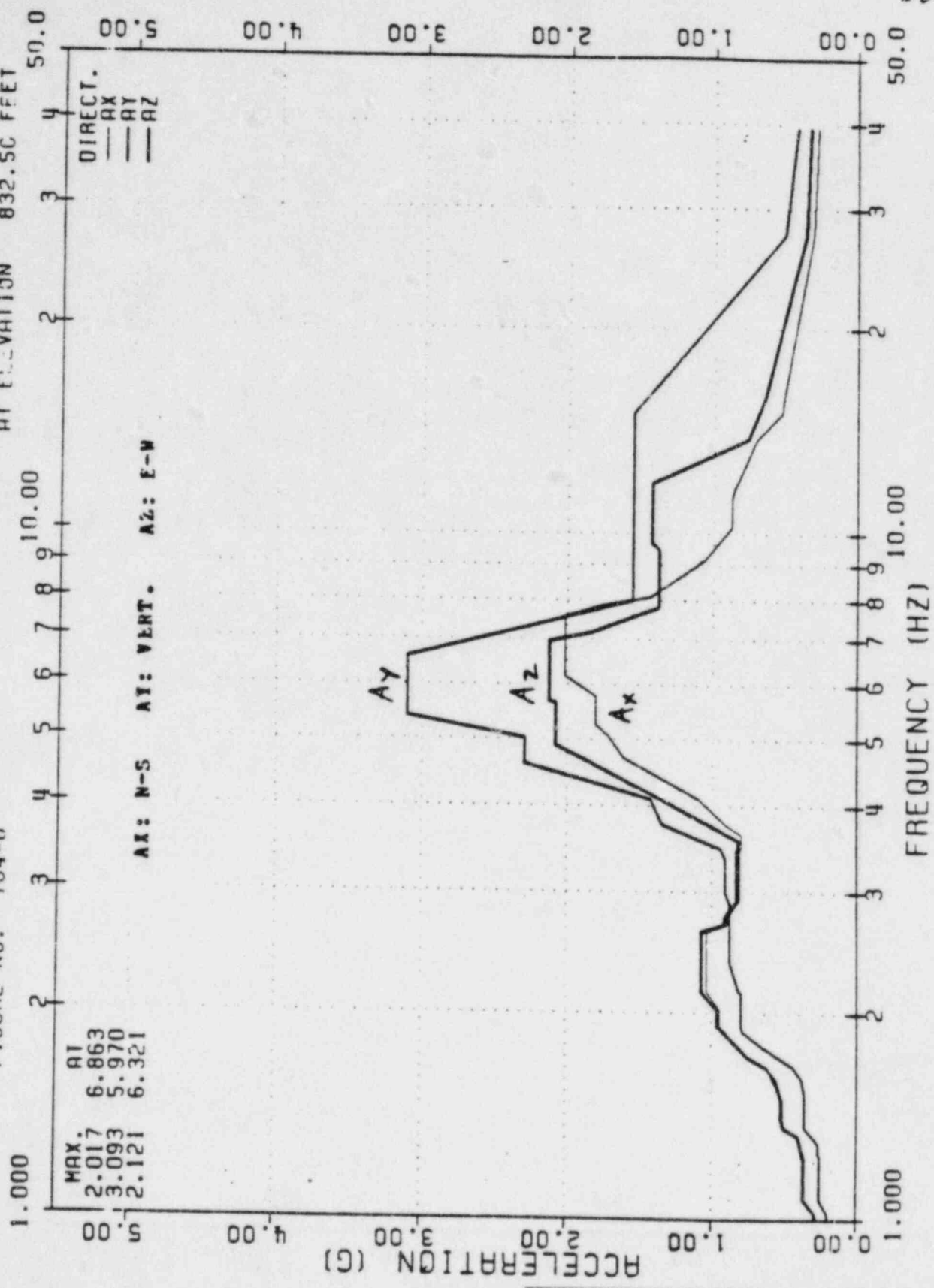
O B: 1/27 ADP WY		TUSI-R.B. INTERNAL STR.	
ISSUE DATE 7.19.68		REFINED RESPONSE SPECTRA	
APPROVALS		GIBBS & HILL, I.C. ENGINEERS, DESIGNERS, CONSTRUCTORS	
ISSUED FOR		JOB NO. 2323	
FIGURE-103 B		FIGURE-103 B	

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSEE
 FIGURE NO. 104-B

DAMPING = 0.02

AT ELEVATION 832.50 FEET



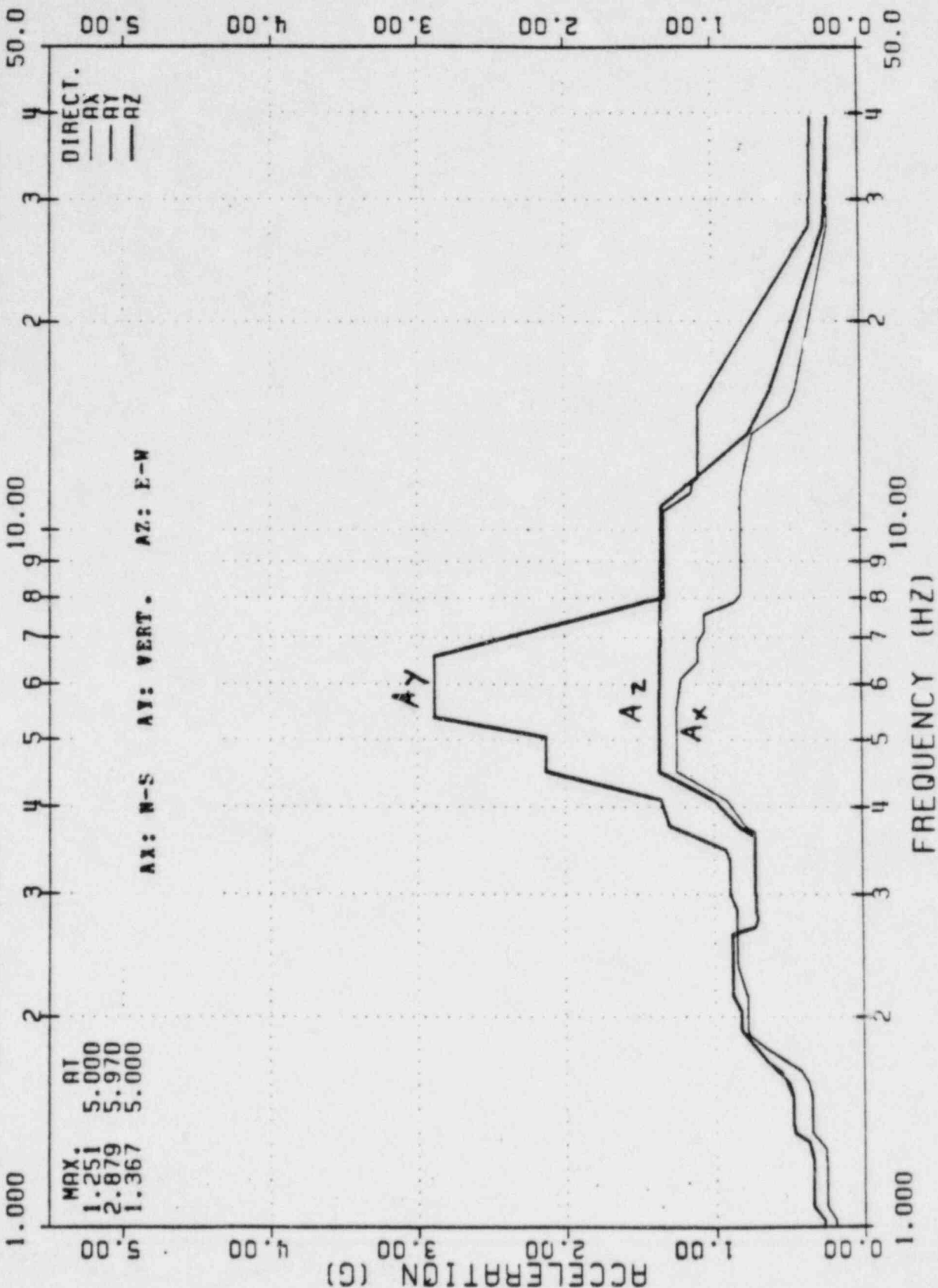
TUSI-R.B. INTERNAL STR.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC.	
ENGINEERS, DESIGNERS, CONSTRUCTORS	
ISSUED FOR	FIGURE-104 B
JOB NO. 2523	

DATE	BY	PLT.	CHK.	APP.	ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSE;
FIGURE NO. 105-B

DAMPING = 0.02
AT ELEVATION 808.00 FEET



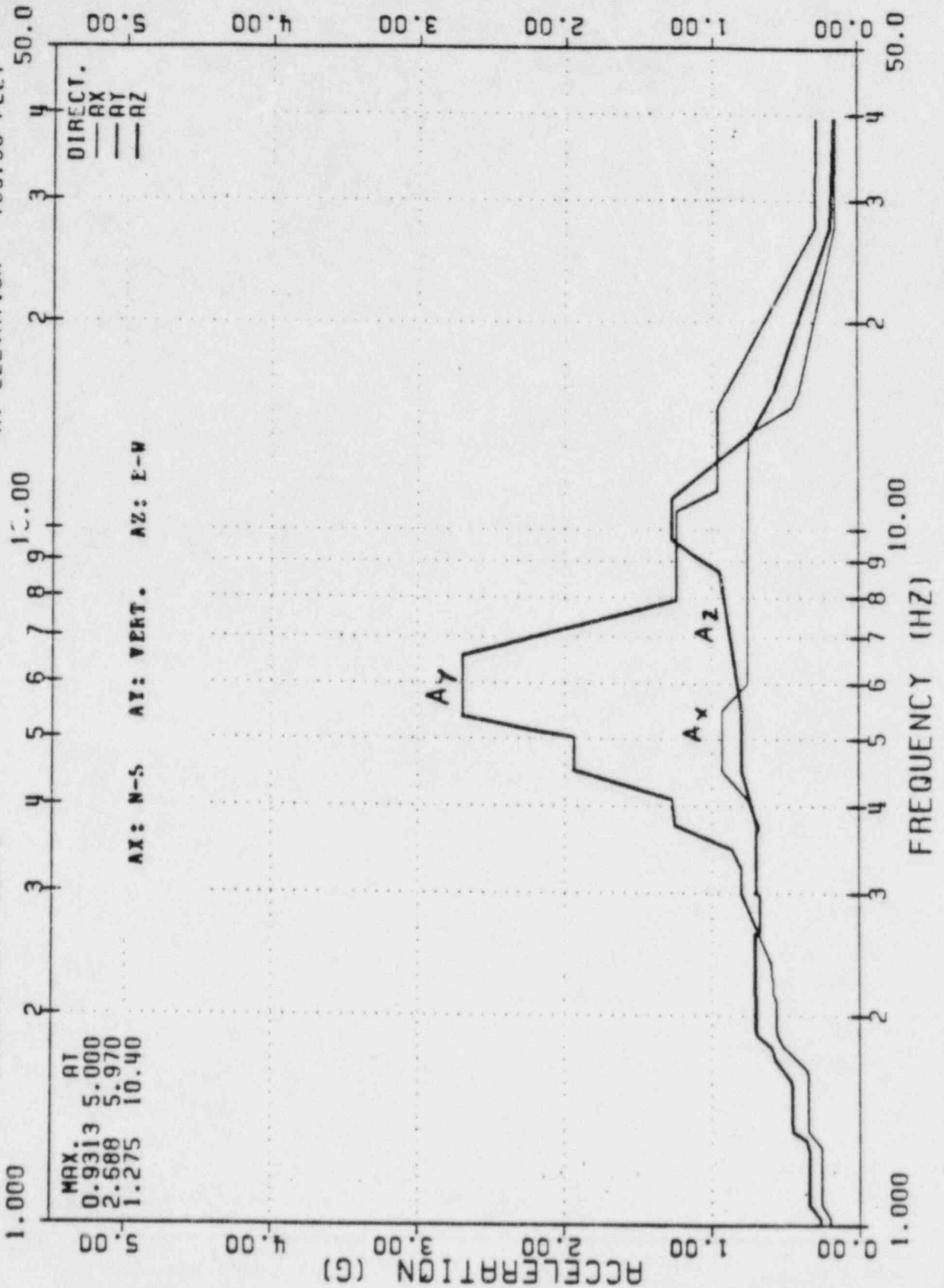
TUSI-R.B. INTERNAL STR.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC. ENGINEERS, DESIGNERS, CONSTRUCTORS 1950 79th	FIGURE-105 (b)
ISSUED FOR JOB NO. 2323	

ISSUE NO.	DATE PLTD. CHG.	BY	APPROVED	ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SEE:
FIGURE NO. 106-B

DAMPING = 0.02
AT ELEVATION 783.58 FEET



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.
ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2323

FIGURE-106 B

DATE PLT. CHG. 100.

ISSUE NO.

DATE

APPROVALS

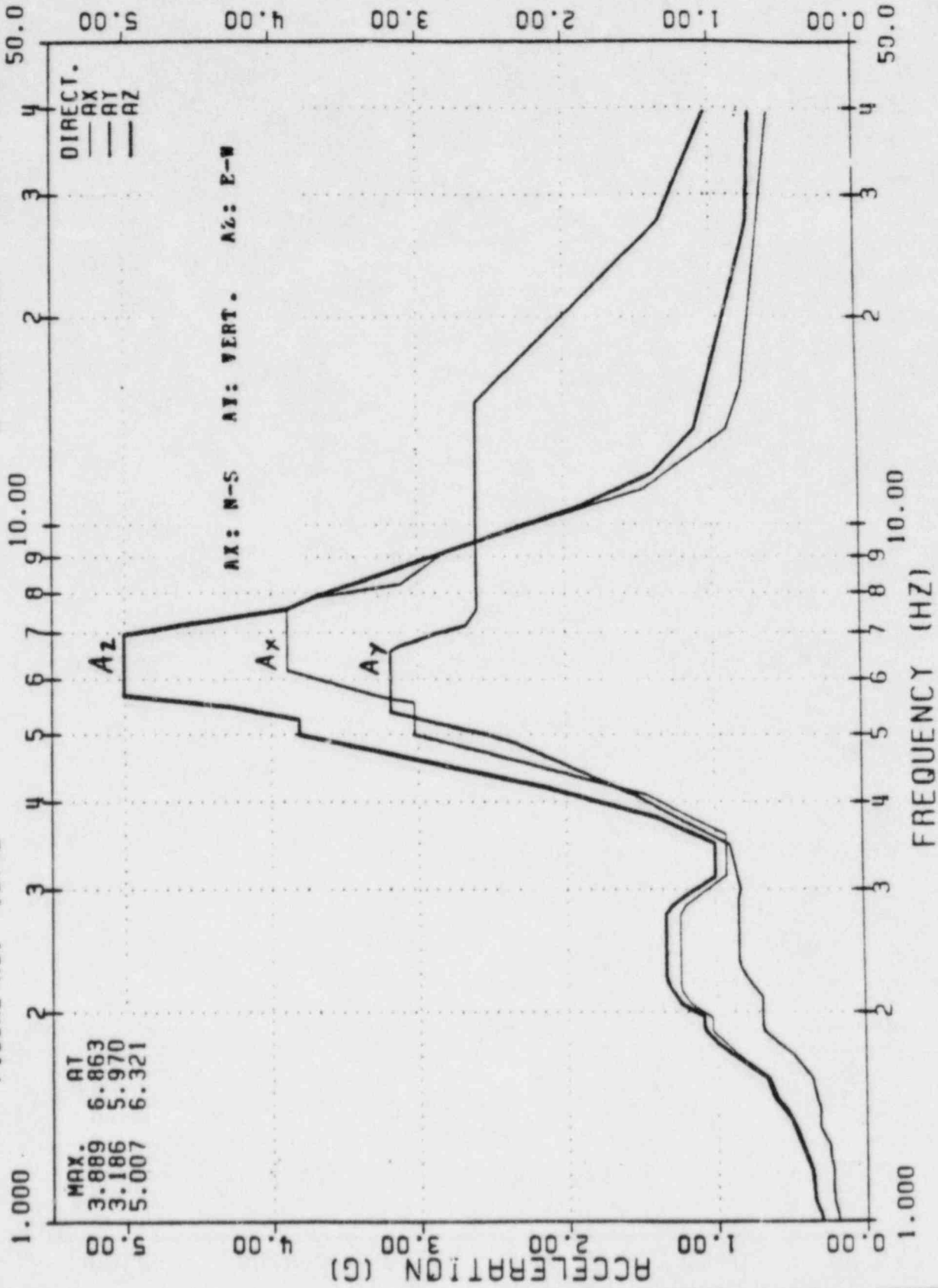
ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSE;
 FIGURE NO. 107-B

DAMPING = 0.03

AT ELEVATION 905.75 FEET



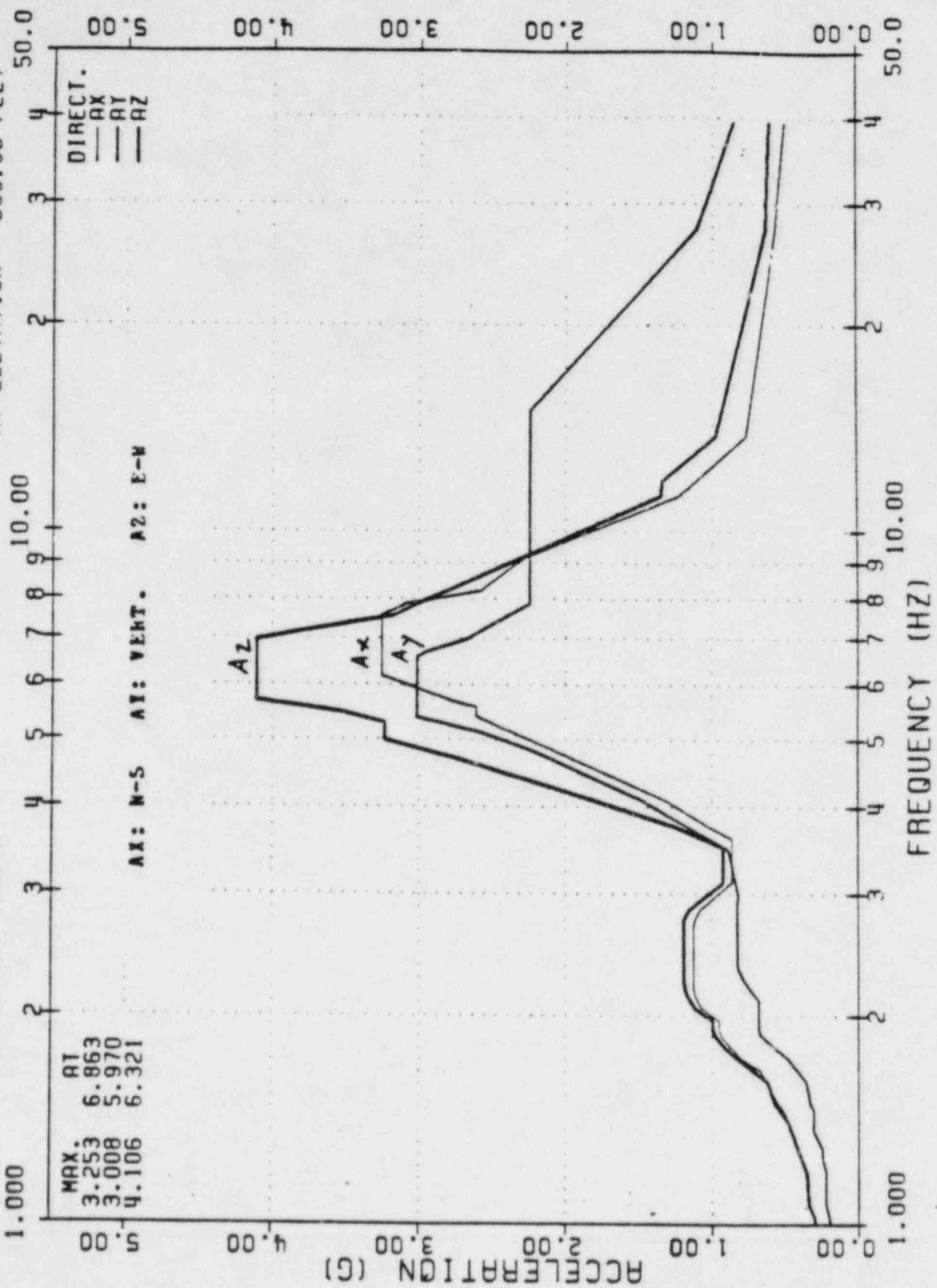
TUSI-R.B. INTERNAL STR.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC.	
ENGINEERS, DESIGNERS, CONTRACTORS	
JOB NO. 2523	FIGURE-107 B

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1960	PLT	CHS	LOS	
APPROVALS				

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSE:
FIGURE NO. 108-B

DAMPING = 0.03
AT ELEVATION 885.50 FEET



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & MILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS
800 1000

JOB NO. 2325

FIGURE-108 B

ISSUE NO. DATE PLT.C NO. 800. DR

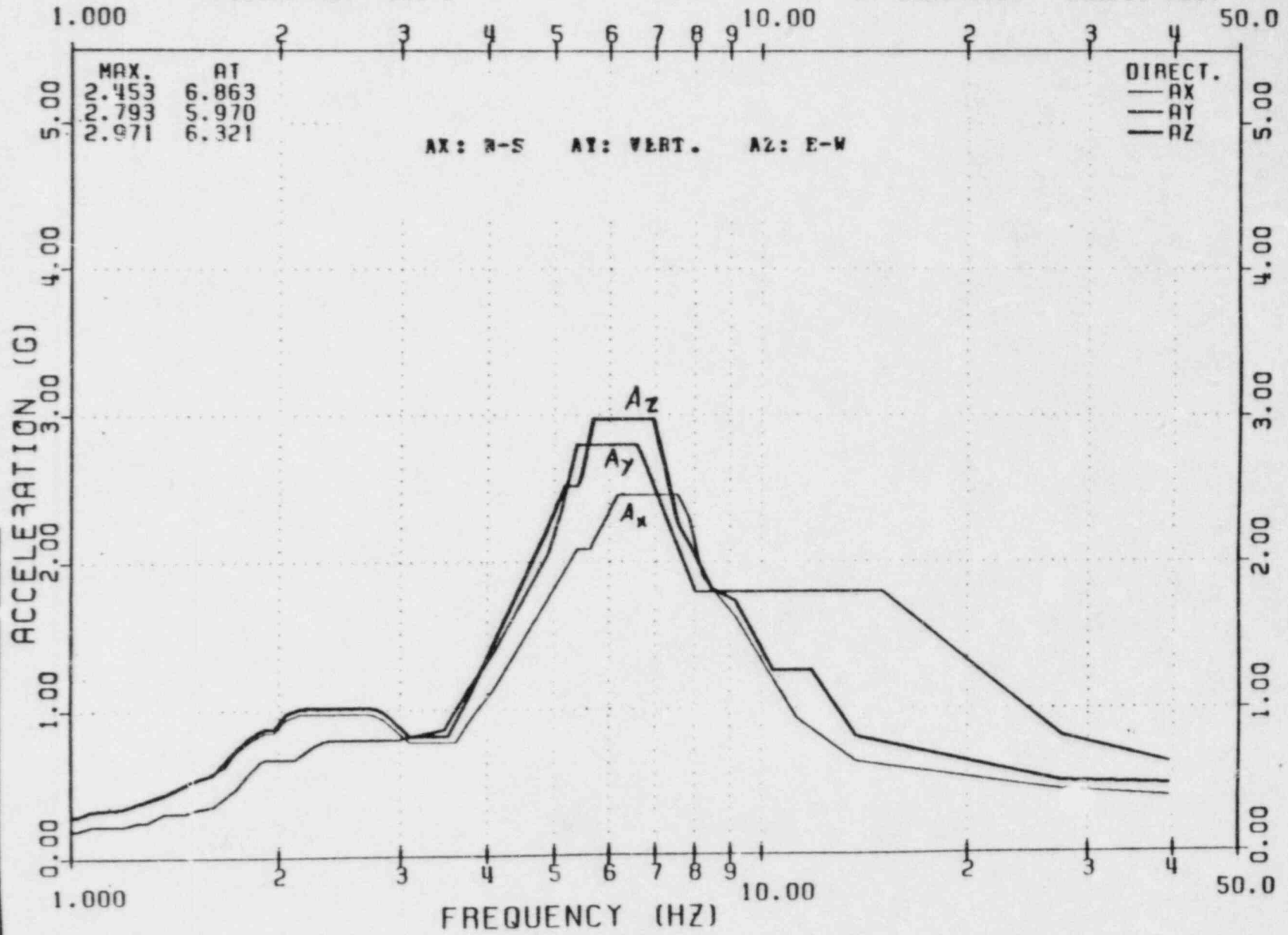
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ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSE;
FIGURE NO. 109-B

DAMPING = 0.03
AT ELEVATION 860.00 FEET



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.
ENGINEERS, DESIGNERS, CONSTRUCTORS

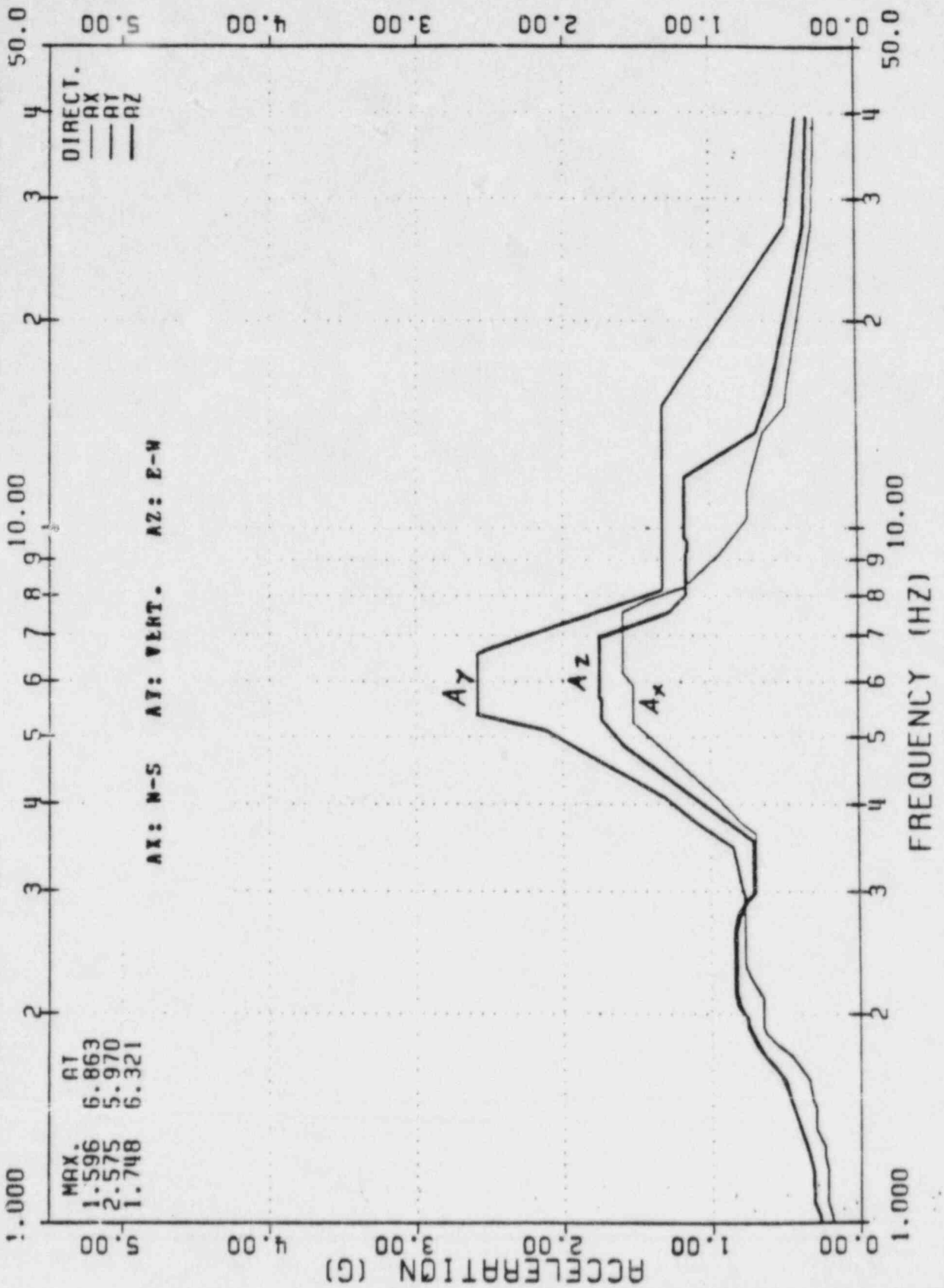
JOB NO. 2323

FIGURE-109B

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA F01 SSE;
FIGURE NO. 110-B

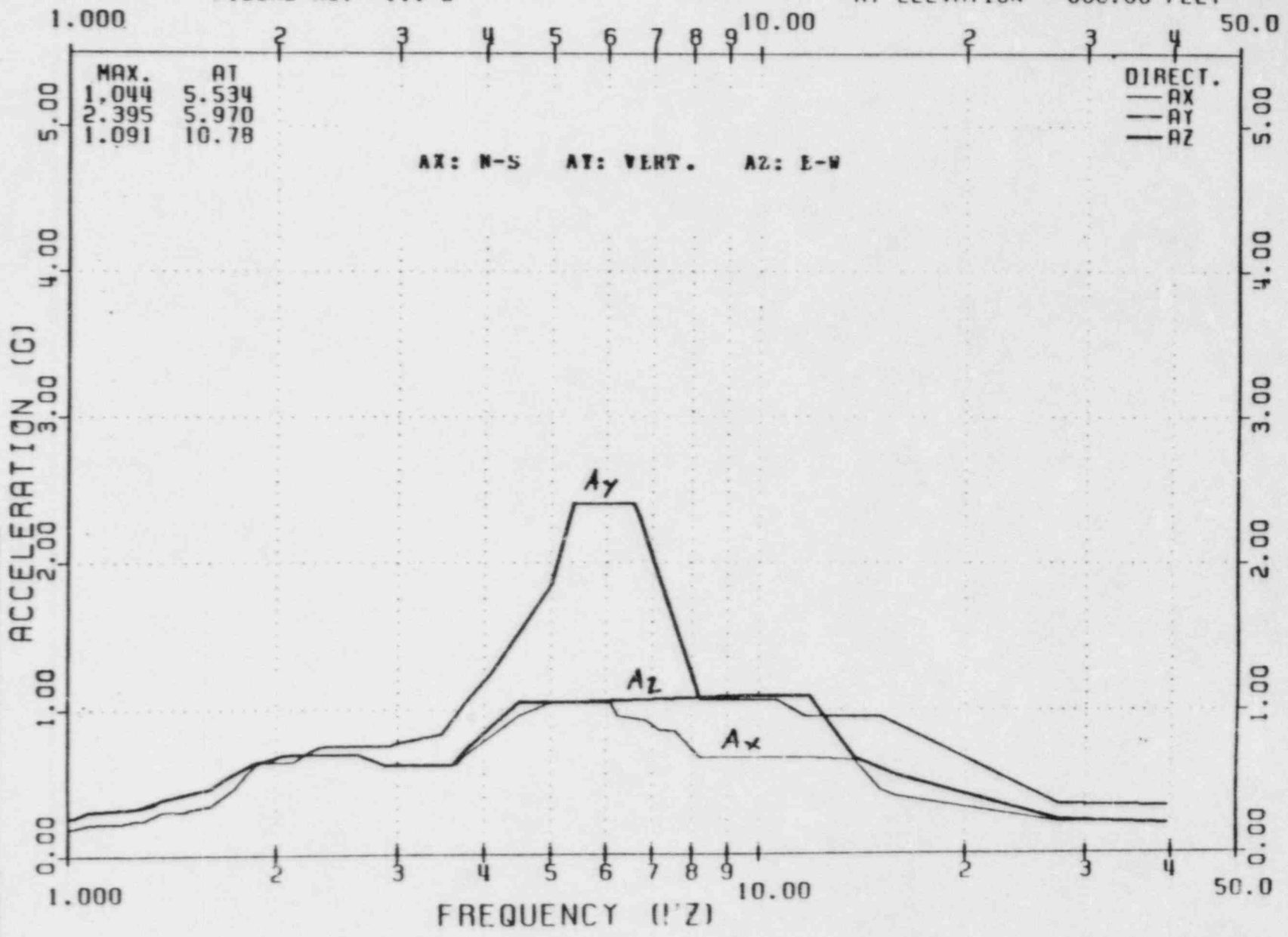
DAMPING = 0.03
AT ELEVATION 832.50 FEET



TUSI-R.B. INTERNAL STR.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC.	
ENGINEERS, DESIGNERS, CONSTRUCTORS	
ISSUE	DATE
1	PLT. ENGR. 10/2
2	DATE
3	PLT. ENGR. 10/2
4	DATE
5	PLT. ENGR. 10/2
6	DATE
7	PLT. ENGR. 10/2
8	DATE
9	PLT. ENGR. 10/2
10	DATE
11	PLT. ENGR. 10/2
12	DATE
13	PLT. ENGR. 10/2
14	DATE
15	PLT. ENGR. 10/2
16	DATE
17	PLT. ENGR. 10/2
18	DATE
19	PLT. ENGR. 10/2
20	DATE
21	PLT. ENGR. 10/2
22	DATE
23	PLT. ENGR. 10/2
24	DATE
25	PLT. ENGR. 10/2
26	DATE
27	PLT. ENGR. 10/2
28	DATE
29	PLT. ENGR. 10/2
30	DATE
31	PLT. ENGR. 10/2
32	DATE
33	PLT. ENGR. 10/2
34	DATE
35	PLT. ENGR. 10/2
36	DATE
37	PLT. ENGR. 10/2
38	DATE
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42	DATE
43	PLT. ENGR. 10/2
44	DATE
45	PLT. ENGR. 10/2
46	DATE
47	PLT. ENGR. 10/2
48	DATE
49	PLT. ENGR. 10/2
50	DATE
51	PLT. ENGR. 10/2
52	DATE
53	PLT. ENGR. 10/2
54	DATE
55	PLT. ENGR. 10/2
56	DATE
57	PLT. ENGR. 10/2
58	DATE
59	PLT. ENGR. 10/2
60	DATE
61	PLT. ENGR. 10/2
62	DATE
63	PLT. ENGR. 10/2
64	DATE
65	PLT. ENGR. 10/2
66	DATE
67	PLT. ENGR. 10/2
68	DATE
69	PLT. ENGR. 10/2
70	DATE
71	PLT. ENGR. 10/2
72	DATE
73	PLT. ENGR. 10/2
74	DATE
75	PLT. ENGR. 10/2
76	DATE
77	PLT. ENGR. 10/2
78	DATE
79	PLT. ENGR. 10/2
80	DATE
81	PLT. ENGR. 10/2
82	DATE
83	PLT. ENGR. 10/2
84	DATE
85	PLT. ENGR. 10/2
86	DATE
87	PLT. ENGR. 10/2
88	DATE
89	PLT. ENGR. 10/2
90	DATE
91	PLT. ENGR. 10/2
92	DATE
93	PLT. ENGR. 10/2
94	DATE
95	PLT. ENGR. 10/2
96	DATE
97	PLT. ENGR. 10/2
98	DATE
99	PLT. ENGR. 10/2
100	DATE

FIGURE-110 B

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.
 FLOOR RESPONSE SPECTRA FOR SSE; DAMPING = 0.03
 FIGURE NO. 111-B AT ELEVATION 808.00 FEET

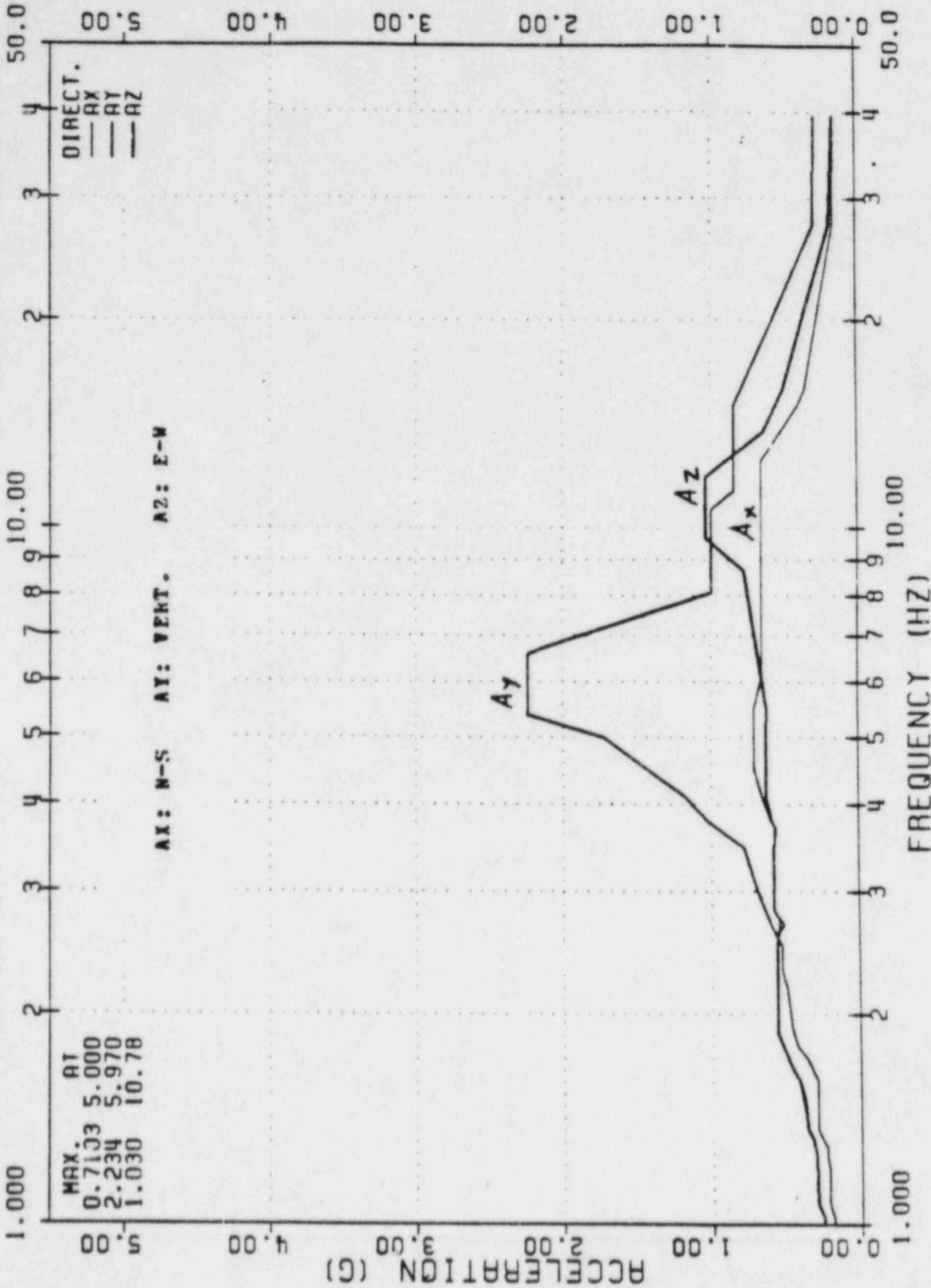


1996 DATE PLOTTED: 08/11/96
 0 1/2" X 11" PLOT
 TUSI-R.B. INTERNAL STR.
 REFINED RESPONSE SPECTRA
 GIBBS & HILL, INC.
 ENGINEERS, DESIGNERS, CONSTRUCTORS
 JAN NO. 2325
 FIGURE-111B

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSE1
 DAMPING = 0.03
 AT ELEVATION 783.58 FEET

FIGURE NO. 112-B



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2323

FIGURE-112 B

ISSUE NO. DATE PLTD. CHNG. OR
 01/21/81 ROP WPT
 000. SYNTH. MOD. (S.A. DES. & CON. DIV.) P.A.
 APPROVALS

ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 1
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX; DAMPING = 0.01
 FIGURE NO. 125-B DIRECTION 1 AT ELEVATION 905.75 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 125				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 43		DAMPING VALUE = 0.010			
1	0.9000	0.14765	2	0.9783	0.16533	3	1.0231	0.16533	4	1.0714	0.24694
5	1.2713	0.24694	6	1.3235	0.26121	7	1.3637	0.37509	8	1.4062	0.39274
9	1.5483	0.39274	10	1.6071	0.42014	11	1.6667	0.49323	12	1.7308	0.69113
13	1.8000	0.85272	14	1.8750	0.98084	15	1.9132	1.01805	16	2.1068	1.01805
17	2.1429	1.13757	18	2.6191	1.13757	19	2.6594	1.03210	20	2.8380	1.03210
21	3.0181	0.79566	22	3.4375	0.79566	23	3.5038	0.74942	24	3.7250	0.74942
25	3.7500	0.77090	26	4.0909	0.96120	27	4.5000	2.28067	28	5.0000	2.70987
29	5.5800	2.70987	30	5.6250	2.81767	31	5.6890	3.17884	32	5.8517	3.90152
33	6.1771	5.20284	34	7.5497	5.20284	35	7.8572	4.13492	36	7.8890	3.83114
37	8.0763	3.83114	38	9.1666	2.38995	39	11.2820	1.05488	40	13.7500	0.57209
41	15.8273	0.52832	42	27.5000	0.48123	43	39.5000	0.40571			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 2
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX; DAMPING = 0.01
 FIGURE NO. 126-B DIRECTION 1 AT ELEVATION 885.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 126				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 42		DAMPING VALUE = 0.010			
1	0.9000	0.14510	2	0.9783	0.16112	3	1.0234	0.16112	4	1.0714	0.24004
5	1.3030	0.24004	6	1.3235	0.25162	7	1.3637	0.36162	8	1.4062	0.37779
9	1.5748	0.37779	10	1.6071	0.39025	11	1.6667	0.45763	12	1.7308	0.63550
13	1.8000	0.77389	14	1.8750	0.88227	15	1.9132	0.91129	16	2.1018	0.91129
17	2.1429	1.02962	18	2.6191	1.02962	19	2.6719	0.89977	20	2.8380	0.89977
21	2.9872	0.73133	22	3.4375	0.73133	23	3.4960	0.69257	24	3.7274	0.69257
25	3.7500	0.71011	26	4.0909	0.87064	27	4.5000	2.01332	28	5.0000	2.32415
29	5.6011	2.32415	30	5.6250	2.37061	31	5.6890	2.66000	32	5.8517	3.24740
33	6.1771	4.30467	34	7.5497	4.30467	35	7.8572	3.41815	36	7.8908	3.14813
37	8.0763	3.14813	38	9.1666	1.92523	39	11.2820	0.88741	40	13.7500	0.48890
41	27.5000	0.40476	42	39.5000	0.34135						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 3
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX; DAMPING = 0.01
 FIGURE NO. 127-B DIRECTION 1 AT ELEVATION 860.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 127				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 40		DAMPING VALUE = 0.010			
1	0.9000	0.14199	2	0.9783	0.15582	3	1.0237	0.15582	4	1.0714	0.23135
5	1.3095	0.23135	6	1.3235	0.23956	7	1.3637	0.34467	8	1.4062	0.35897
9	1.6133	0.35897	10	1.6667	0.41281	11	1.7308	0.56547	12	1.8000	0.67466
13	1.8750	0.75818	14	1.9132	0.77691	15	2.0931	0.77691	16	2.1429	0.89371
17	2.6191	0.89371	18	2.6849	0.74515	19	2.8380	0.73314	20	2.9301	0.65049
21	3.4375	0.65049	22	3.4777	0.62560	23	3.7375	0.62560	24	3.7500	0.63406
25	4.0909	0.75767	26	4.7000	1.67863	27	5.0000	1.83934	28	5.6339	1.83934
29	5.6890	2.01066	30	5.8517	2.42631	31	6.1771	3.17456	32	7.5497	3.17456
33	7.8572	2.51637	34	7.8944	2.28934	35	8.0763	2.28934	36	9.1666	1.34060
37	11.2820	0.67893	38	13.7500	0.42997	39	27.5000	0.30876	40	39.5000	0.26068

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 4
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX; DAMPING = 0.01

FIGURE NO. 128-B DIRECTION 1 AT ELEVATION 832.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 128			DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 43		DAMPING VALUE = 0.010				
1	0.9000	0.13864	2	0.9783	0.15011	3	1.0242	0.15011	4	1.0714	0.22199
5	1.3160	0.22199	6	1.3235	0.22656	7	1.3637	0.32639	8	1.4062	0.33869
9	1.6371	0.33869	10	1.6667	0.36454	11	1.7308	0.49001	12	1.8000	0.56774
13	1.8750	0.62445	14	1.9132	0.64544	15	2.0852	0.64544	16	2.1429	0.74720
17	2.6191	0.74720	18	2.6849	0.61239	19	2.8111	0.56359	20	3.4375	0.56359
21	3.4574	0.55373	22	3.6666	0.55373	23	3.6673	0.55290	24	3.7500	0.55290
25	4.0909	0.63784	26	4.7500	1.32189	27	5.6881	1.32189	28	5.6890	1.32248
29	5.8517	1.54907	30	6.1771	1.95886	31	7.5497	1.95886	32	7.8572	1.54658
33	7.9020	1.36768	34	8.0763	1.36768	35	9.1666	0.71252	36	10.1258	0.59867
37	11.2820	0.59867	38	11.6897	0.57347	39	11.8535	0.56138	40	13.7500	0.42621
41	15.0273	0.33985	42	27.5000	0.20609	43	39.5000	0.17518			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 5
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX; DAMPING = 0.01
 FIGURE NO. 129-B DIRECTION 1 AT ELEVATION 808.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 129			DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 40		DAMPING VALUE = 0.010				
1	0.9000	0.13567	2	0.9783	0.14503	3	1.0245	0.14503	4	1.0714	0.21365
5	1.3214	0.21365	6	1.3235	0.21498	7	1.3637	0.31012	8	1.4062	0.32063
9	1.6652	0.32063	10	1.6667	0.32160	11	1.7308	0.42287	12	1.8000	0.47260
13	1.8750	0.50544	14	1.9132	0.56487	15	2.1009	0.56487	16	2.1429	0.61674
17	2.6191	0.61674	18	2.6849	0.49417	19	2.6983	0.48656	20	2.9980	0.48656
21	3.0000	0.49015	22	3.6666	0.49015	23	3.5736	0.48202	24	3.7500	0.48202
25	4.0909	0.53462	26	4.5000	1.01385	27	5.5000	1.01385	28	6.0039	0.88917
29	7.5497	0.88917	30	7.8572	0.69463	31	7.9279	0.56883	32	8.0763	0.56883
33	8.0765	0.56874	34	11.2820	0.56874	35	11.6897	0.55182	36	11.8535	0.54253
37	13.7500	0.43998	38	15.0273	0.31328	39	27.5000	0.12729	40	39.5000	0.11765

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 6
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX; DAMPING = 0.01
 FIGURE NO. 130-B DIRECTION 1 AT ELEVATION 783.58 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 130			DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 32		DAMPING VALUE = 0.010				
1	0.9000	0.13275	2	0.9783	0.14003	3	1.0250	0.14003	4	1.0714	0.20529
5	1.3095	0.20529	6	1.3227	0.20351	7	1.3235	0.20351	8	1.3637	0.29376
9	1.4062	0.30250	10	1.6853	0.30250	11	1.7308	0.35636	12	1.8750	0.44054
13	1.9132	0.48435	14	2.1404	0.48435	15	2.1429	0.48610	16	2.6191	0.48610
17	2.6618	0.41419	18	2.9678	0.41419	19	3.0000	0.46983	20	3.6666	0.46983
21	3.7121	0.41713	22	3.7500	0.41713	23	4.0909	0.44196	24	4.5000	0.73744
25	5.5000	0.73744	26	6.0562	0.54585	27	11.2820	0.54585	28	11.6897	0.53345
29	13.7500	0.45054	30	15.0273	0.29528	31	27.5000	0.07961	32	39.5000	0.07787

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 7
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AY; DAMPING = 0.01
 FIGURE NO. 125-B DIRECTION 2 AT ELEVATION 905.75 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 125			DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 33		DAMPING VALUE = 0.010				
1	0.9000	0.10355	2	0.9783	0.10539	3	1.0238	0.10539	4	1.0714	0.15963
5	1.2963	0.15963	6	1.3235	0.17642	7	1.3637	0.22743	8	1.4062	0.23135
9	1.6114	0.23135	10	1.6667	0.26979	11	1.8750	0.65584	12	1.9129	0.71171
13	1.9132	0.71186	14	2.3102	0.71186	15	2.3190	0.73272	16	2.3220	0.73632
17	2.8380	0.73632	18	3.0556	0.71805	19	3.1271	0.64480	20	3.5059	0.64480
21	3.7500	0.94958	22	4.0991	0.94958	23	4.7000	2.16717	24	5.0263	2.16717
25	5.1049	2.32019	26	5.4711	2.70820	27	6.1664	2.70820	28	6.1771	2.72372
29	7.5497	2.72372	30	7.8572	2.29959	31	14.3000	2.29959	32	27.5000	0.80000

33 39.5000 0.68576

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 8
FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AY; DAMPING = 0.01
FIGURE NO. 126-B DIRECTION 2 AT ELEVATION 885.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 126			DEGREE OF FREEDOM = 2			NUMBER OF GRIDS = 35			DAMPING VALUE = 0.010		
1	0.9000	0.10317	2	0.9783	0.10495	3	1.0240	0.10495	4	1.0714	0.15890
5	1.2969	0.15890	6	1.3235	0.17522	7	1.3637	0.22609	8	1.4062	0.22948
9	1.6129	0.22948	10	1.6667	0.26584	11	1.8000	0.51418	12	1.8750	0.64526
13	1.9129	0.69974	14	1.9132	0.69988	15	2.3126	0.69988	16	2.3190	0.71458
17	2.3220	0.71810	18	2.8380	0.71810	19	3.0556	0.70371	20	3.1235	0.63625
21	3.5133	0.63625	22	3.7500	0.92335	23	4.1059	0.92335	24	4.7000	2.02630
25	5.0442	2.02630	26	5.1049	2.14515	27	5.3731	2.45293	28	5.4711	2.55397
29	6.6869	2.55397	30	6.9294	2.29118	31	7.5497	2.29118	32	7.8572	1.97707
33	15.0273	1.97707	34	27.5000	0.74952	35	39.5000	0.56336			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 9
FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AY; DAMPING = 0.01
FIGURE NO. 127-B DIRECTION 2 AT ELEVATION 860.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 127			DEGREE OF FREEDOM = 2			NUMBER OF GRIDS = 37			DAMPING VALUE = 0.010		
1	0.9000	0.10271	2	0.9783	0.10441	3	1.0242	0.10441	4	1.0714	0.15000
5	1.2976	0.15800	6	1.3235	0.17373	7	1.3637	0.22442	8	1.4062	0.22715
9	1.6150	0.22715	10	1.6667	0.26089	11	1.8000	0.50466	12	1.8750	0.63195
13	1.9129	0.68467	14	1.9132	0.68482	15	2.3159	0.68482	16	2.3190	0.69179
17	2.3220	0.69519	18	2.8380	0.69519	19	3.0556	0.68567	20	3.1186	0.62549
21	3.5218	0.62549	22	3.7500	0.89124	23	4.1155	0.89124	24	4.7000	1.85575
25	5.0666	1.85575	26	5.1049	1.93142	27	5.3731	2.27422	28	5.4711	2.36734
29	6.6869	2.36734	30	7.1521	1.86504	31	7.5497	1.75666	32	7.8572	1.58018
33	10.6383	1.58018	34	11.2820	1.57208	35	15.0273	1.57208	36	27.5000	0.54078
37	39.5000	0.40927									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 10
FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AY; DAMPING = 0.01
FIGURE NO. 128-B DIRECTION 2 AT ELEVATION 832.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 128			DEGREE OF FREEDOM = 2			NUMBER OF GRIDS = 34			DAMPING VALUE = 0.010		
1	0.9000	0.10221	2	0.9783	0.10383	3	1.0244	0.10383	4	1.0714	0.15706
5	1.2985	0.15706	6	1.3235	0.17214	7	1.3637	0.22262	8	1.4062	0.22465
9	1.6173	0.22465	10	1.6667	0.25560	11	1.8000	0.49443	12	1.8750	0.61762
13	1.9129	0.66845	14	1.9132	0.66860	15	2.3202	0.66860	16	2.3220	0.67054
17	2.8380	0.67054	18	3.0556	0.66626	19	3.1129	0.61389	20	3.5269	0.61389
21	3.7500	0.85789	22	4.1274	0.85789	23	4.7000	1.68283	24	5.0901	1.68283
25	5.1049	1.71229	26	5.3731	2.09221	27	5.4711	2.17787	28	6.6869	2.17787
29	7.8572	1.35527	30	10.6383	1.35527	31	11.2820	1.13822	32	15.0273	1.13822
33	27.5000	0.31579	34	39.5000	0.25528						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 11
FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AY; DAMPING = 0.01
FIGURE NO. 129-B DIRECTION 2 AT ELEVATION 808.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 129			DEGREE OF FREEDOM = 2			NUMBER OF GRIDS = 34			DAMPING VALUE = 0.010		
1	0.9000	0.10176	2	0.9783	0.10333	3	1.0245	0.10333	4	1.0714	0.15623
5	1.2992	0.15623	6	1.3235	0.17074	7	1.3637	0.22104	8	1.4062	0.22246
9	1.6195	0.22246	10	1.6667	0.25092	11	1.8000	0.48535	12	1.8750	0.60488
13	1.9129	0.65402	14	1.9132	0.65417	15	2.3384	0.65417	16	2.3430	0.64900

17	3.0556	0.64900	18	3.1073	0.60355	19	3.5318	0.60355	20	3.7500	0.82941
21	4.1391	0.82941	22	4.7000	1.54146	23	5.1115	1.54146	24	5.3731	1.94189
25	5.4711	2.02211	26	6.6869	2.02211	27	7.5814	1.18022	28	10.6383	1.18022
29	11.2820	0.86989	30	11.6897	0.83692	31	11.9029	0.78916	32	15.0273	0.78916
33	27.5000	0.18904	34	39.5000	0.18197						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 12
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AY; DAMPING = 0.01
 FIGURE NO. 130-B DIRECTION 2 AT ELEVATION 783.58 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 130			DEGREE OF FREEDOM = 2			NUMBER OF GRIDS = 35			DAMPING VALUE = 0.010		
1	0.9000	0.10100	2	0.9783	0.10249	3	1.0252	0.10249	4	1.0714	0.15467
5	1.3043	0.15467	6	1.3235	0.16515	7	1.3637	0.21351	8	1.6779	0.21351
9	1.8000	0.34366	10	1.8750	0.39992	11	1.9129	0.41283	12	1.9132	0.41291
13	2.1413	0.41291	14	2.1429	0.41412	15	2.3598	0.41412	16	2.5000	0.44713
17	2.7270	0.44713	18	2.8125	0.49842	19	3.0000	0.55062	20	3.5112	0.55062
21	3.7500	0.79837	22	4.1571	0.79837	23	4.7000	1.37848	24	5.0913	1.37848
25	5.1049	1.42046	26	5.3731	1.80043	27	5.4711	1.87355	28	6.6869	1.87355
29	7.5321	1.10865	30	10.6383	1.10865	31	11.2820	0.74370	32	11.4438	0.68793
33	15.0273	0.68793	34	27.5000	0.15547	35	39.5000	0.15123			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 13
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ; DAMPING = 0.01
 FIGURE NO. 125-B DIRECTION 3 AT ELEVATION 905.75 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 125			DEGREE OF FREEDOM = 3			NUMBER OF GRIDS = 41			DAMPING VALUE = 0.010		
1	0.9000	0.15483	2	0.9375	0.16245	3	0.9783	0.17035	4	1.0231	0.17035
5	1.0714	0.25037	6	1.2574	0.25037	7	1.3235	0.26864	8	1.3637	0.38316
9	1.4062	0.41207	10	1.5630	0.41207	11	1.6071	0.43455	12	1.6667	0.51956
13	1.7308	0.72415	14	1.8000	0.89099	15	1.8750	1.04086	16	1.9129	1.07209
17	2.1031	1.07209	18	2.1429	1.21127	19	2.6191	1.21127	20	2.6672	1.08615
21	2.8344	1.08615	22	2.9752	0.90991	23	3.4375	0.90991	24	3.5436	0.79878
25	3.5803	0.79878	26	3.7500	0.97414	27	4.0909	1.53693	28	4.8500	3.85452
29	5.3035	3.85452	30	5.6250	5.17670	31	5.6890	5.89740	32	5.8709	5.94833
33	7.1755	5.94833	34	7.9538	3.54013	35	8.4811	2.85365	36	9.1666	2.48923
37	10.6383	1.48034	38	11.8535	1.12072	39	13.7500	0.77773	40	27.5000	0.50815
41	39.5000	0.48731									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 14
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ; DAMPING = 0.01
 FIGURE NO. 126-B DIRECTION 3 AT ELEVATION 885.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 126			DEGREE OF FREEDOM = 3			NUMBER OF GRIDS = 41			DAMPING VALUE = 0.010		
1	0.9000	0.15108	2	0.9783	0.16514	3	1.0234	0.16514	4	1.0714	0.24257
5	1.2982	0.24257	6	1.3235	0.25746	7	1.3637	0.36788	8	1.4062	0.39340
9	1.5872	0.39340	10	1.6071	0.40181	11	1.6667	0.47867	12	1.7308	0.66204
13	1.8000	0.80453	14	1.8750	0.92974	15	1.9129	0.95359	16	2.0982	0.95359
17	2.1429	1.08894	18	2.6191	1.08894	19	2.6794	0.94106	20	2.8344	0.94106
21	2.9449	0.82245	22	3.4375	0.82245	23	3.5297	0.73486	24	3.5929	0.79486
25	3.7500	0.37880	26	4.0909	1.34467	27	4.8500	3.30709	28	5.3433	3.30709
29	5.6250	4.22588	30	5.6890	4.80748	31	5.8709	4.83194	32	7.1755	4.83194
33	7.9538	2.83682	34	8.4811	2.29714	35	9.1666	2.09237	36	10.6383	1.22022
37	11.2142	1.07482	38	11.8535	1.07482	39	13.7500	0.68511	40	27.5000	0.42259
41	39.5000	0.40484									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 15
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ; DAMPING = 0.01

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FIGURE NO. 127-B DIRECTION 3 AT ELEVATION 860.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 127 DEGREE OF FREEDOM = 3 NUMBER OF GRIDS = 39 DAMPING VALUE = 0.010

1	0.9000	0.14636	2	0.9783	0.15858	3	1.0238	0.15858	4	1.0714	0.23274
5	1.3059	0.23274	6	1.3235	0.24339	7	1.3637	0.34865	8	1.4062	0.36988
9	1.6153	0.36988	10	1.6667	0.42719	11	1.7308	0.58384	12	1.8000	0.69566
13	1.8750	0.78983	14	1.9129	0.80439	15	2.0895	0.80439	16	2.1429	0.93489
17	2.6191	0.93489	18	2.6849	0.78562	19	2.8344	0.75836	20	2.8922	0.71234
21	3.4375	0.71234	22	3.5076	0.65440	23	3.6142	0.65440	24	3.7500	0.75879
25	4.0909	1.10259	26	4.9000	2.61779	27	5.4375	2.61779	28	5.6250	3.02855
29	5.6890	3.43499	30	6.9532	3.43499	31	7.1755	3.42614	32	7.8572	2.02562
33	8.4811	1.59636	34	9.1666	1.59265	35	10.4575	1.01707	36	11.8535	1.01707
37	13.7500	0.56860	38	27.5000	0.31625	39	39.5000	0.30134			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 16
 FLOOR RESPONSE SPECTRA FOR 1/2SSSE; COMPONENT AZ ; DAMPING = 0.01
 FIGURE NO. 128-B DIRECTION 3 AT ELEVATION 832.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 128 DEGREE OF FREEDOM = 3 NUMBER OF GRIDS = 37 DAMPING VALUE = 0.010

1	0.9000	0.14127	2	0.9783	0.15150	3	1.0242	0.15150	4	1.0714	0.22215
5	1.3138	0.22215	6	1.3235	0.22820	7	1.3637	0.32791	8	1.4062	0.34451
9	1.6373	0.34451	10	1.6667	0.37168	11	1.7308	0.49953	12	1.8000	0.57828
13	1.8750	0.63897	14	1.9129	0.65756	15	2.0815	0.65756	16	2.1429	0.76876
17	2.6191	0.76876	18	2.6849	0.63236	19	2.7666	0.59363	20	3.4375	0.59363
21	3.4771	0.56766	22	3.6408	0.56766	23	4.0909	0.84158	24	4.8500	1.87452
25	5.6653	1.87452	26	5.6890	1.95485	27	6.9532	1.95485	28	7.1521	1.91489
29	7.1755	1.91007	30	7.8373	1.05380	31	9.1666	1.05380	32	9.6886	0.95485
33	11.8535	0.95485	34	13.7500	0.46229	35	15.8273	0.38696	36	27.5000	0.21747
37	39.5000	0.20187									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 17
 FLOOR RESPONSE SPECTRA FOR 1/2SSSE; COMPONENT AZ ; DAMPING = 0.01
 FIGURE NO. 129-B DIRECTION 3 AT ELEVATION 808.90 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 129 DEGREE OF FREEDOM = 3 NUMBER OF GRIDS = 32 DAMPING VALUE = 0.010

1	0.9000	0.13673	2	0.9783	0.14520	3	1.0246	0.14520	4	1.0714	0.21272
5	1.3203	0.21272	6	1.3235	0.21479	7	1.3637	0.30943	8	1.4062	0.32191
9	1.6662	0.32191	10	1.6667	0.32225	11	1.7308	0.42443	12	1.8000	0.47374
13	1.8750	0.50460	14	1.9129	0.56322	15	2.0964	0.56322	16	2.1429	0.62075
17	2.6191	0.62075	18	2.6849	0.49582	19	2.6959	0.48932	20	2.9977	0.48932
21	3.0000	0.49375	22	3.7061	0.49375	23	3.7500	0.51429	24	4.0909	0.60916
25	4.5000	1.21267	26	5.5000	1.21267	27	6.0000	0.89948	28	10.7500	0.89948
29	13.7500	0.45834	30	15.8273	0.36736	31	27.5000	0.12954	32	39.5000	0.11412

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 18
 FLOOR RESPONSE SPECTRA FOR 1/2SSSE; COMPONENT AZ ; DAMPING = 0.01
 FIGURE NO. 130-B DIRECTION 3 AT ELEVATION 783.58 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 130 DEGREE OF FREEDOM = 3 NUMBER OF GRIDS = 30 DAMPING VALUE = 0.010

1	0.9000	0.13284	2	0.9783	0.13949	3	1.0250	0.13949	4	1.0714	0.20475
5	1.3230	0.20475	6	1.3235	0.20511	7	1.3637	0.29244	8	1.4062	0.30149
9	1.6850	0.30149	10	1.7308	0.35439	11	1.8750	0.43843	12	1.9129	0.47724
13	2.1318	0.47724	14	2.1429	0.48517	15	2.6191	0.48517	16	2.6658	0.40268
17	2.9626	0.40268	18	3.0000	0.46605	19	3.6666	0.46605	20	3.7055	0.42469
21	4.0946	0.42469	22	4.5000	0.65267	23	8.7041	0.65267	24	9.2308	0.73975
25	9.6983	0.84258	26	11.8535	0.84258	27	13.7500	0.44265	28	15.8273	0.34069
29	27.5000	0.09236	30	39.5000	0.07898						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 1
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX ; DAMPING = 0.02
 FIGURE NO. 131-B DIRECTION 1 AT ELEVATION 905.75 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 131				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 42		DAMPING VALUE = 0.020			
1	0.9000	0.13925	2	0.9783	0.15634	3	1.0228	0.16280	4	1.0714	0.20544
5	1.2031	0.20544	6	1.2500	0.22302	7	1.3235	0.24103	8	1.3637	0.29229
9	1.4062	0.30113	10	1.4531	0.30113	11	1.5000	0.33163	12	1.6071	0.37061
13	1.6667	0.42895	14	1.7308	0.55969	15	1.8750	0.74824	16	2.0766	0.74824
17	2.1429	0.78504	18	2.6191	0.78504	19	2.7521	0.77712	20	2.8380	0.75734
21	2.8948	0.72284	22	3.0403	0.59398	23	3.4375	0.59398	24	3.4522	0.59072
25	3.6538	0.59072	26	3.7500	0.66502	27	4.0909	0.84130	28	4.5000	1.49284
29	4.7493	1.85531	30	5.0000	2.17463	31	5.5461	2.17463	32	6.1771	3.65788
33	7.5497	3.65788	34	7.8572	3.14545	35	7.9494	2.79745	36	8.0763	2.79745
37	9.1666	1.95054	38	11.2820	0.92479	39	13.7500	0.56917	40	15.8273	0.50305
41	27.5000	0.45796	42	39.5000	0.39375						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 2
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX ; DAMPING = 0.02
 FIGURE NO. 132-B DIRECTION 1 AT ELEVATION 885.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 132				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 42		DAMPING VALUE = 0.020			
1	0.9000	0.13665	2	0.9375	0.14431	3	0.9783	0.15228	4	1.0228	0.15814
5	1.0714	0.19925	6	1.2076	0.19925	7	1.2500	0.21370	8	1.3235	0.23030
9	1.3637	0.28132	10	1.4062	0.28915	11	1.4606	0.28915	12	1.5000	0.31231
13	1.6071	0.34513	14	1.6667	0.39804	15	1.7308	0.51554	16	1.8750	0.67769
17	2.0769	0.67769	18	2.1429	0.71521	19	2.6191	0.71521	20	2.7521	0.69222
21	2.8380	0.67149	22	2.8948	0.64170	23	3.0171	0.54812	24	3.4375	0.54812
25	3.4725	0.54056	26	3.6507	0.54056	27	3.7500	0.60997	28	4.0909	0.76068
29	4.5000	1.31886	30	4.7493	1.61045	31	5.0000	1.86765	32	5.5663	1.86765
33	6.1771	3.03356	34	7.5497	3.03356	35	7.8572	2.59995	36	7.9529	2.30023
37	8.0763	2.30023	38	9.1666	1.57871	39	11.2820	0.77829	40	13.7500	0.48032
41	36.3036	0.34765	42	39.5000	0.33385						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 3
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX ; DAMPING = 0.02
 FIGURE NO. 133-B DIRECTION 1 AT ELEVATION 860.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 133				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 41		DAMPING VALUE = 0.020			
1	0.9000	0.13337	2	0.9375	0.14019	3	0.9783	0.14717	4	1.0228	0.15228
5	1.0714	0.19146	6	1.2146	0.19146	7	1.2500	0.20196	8	1.3235	0.21679
9	1.3637	0.26750	10	1.4062	0.27408	11	1.4727	0.27408	12	1.5000	0.28799
13	1.6071	0.31308	14	1.6667	0.35916	15	1.7308	0.45998	16	1.8750	0.58889
17	2.0694	0.58889	18	2.1429	0.62731	19	2.6191	0.62731	20	2.8380	0.56341
21	2.8948	0.53955	22	2.9747	0.49053	23	3.4375	0.49053	24	3.4999	0.47754
25	3.6455	0.47754	26	3.7500	0.54104	27	4.0909	0.66010	28	4.5000	1.10120
29	4.7493	1.30311	30	5.0000	1.48189	31	5.6083	1.48189	32	6.1771	2.24819
33	7.5497	2.24819	34	7.8572	1.91366	35	7.9538	1.68913	36	8.0763	1.67523
37	9.1666	1.11110	38	11.2820	0.59609	39	13.7500	0.39421	40	36.3036	0.36451
41	39.5000	0.25416									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 4

FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX ; DAMPING = 0.02
 FIGURE NO. 134-B DIRECTION 1 AT ELEVATION 832.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 134 DEGREE OF FREEDOM = 1 NUMBER OF GRIDS = 49 DAMPING VALUE = 0.020

1	0.9000	0.13004	2	0.9375	0.13576	3	0.9783	0.14166	4	1.0228	0.14596
5	1.0714	0.18325	6	1.2257	0.18325	7	1.2500	0.18933	8	1.3235	0.20225
9	1.3637	0.25262	10	1.4062	0.25783	11	1.4908	0.25783	12	1.5000	0.26177
13	1.6071	0.28167	14	1.6667	0.31727	15	1.7308	0.40012	16	1.8750	0.49321
17	2.0413	0.49321	18	2.1429	0.53255	19	2.6191	0.53255	20	2.6849	0.47524
21	2.7500	0.47033	22	2.7521	0.47005	23	2.8380	0.44689	24	2.8948	0.42943
25	2.8964	0.42870	26	3.4375	0.42870	27	3.4771	0.42225	28	3.6611	0.42225
29	3.7500	0.46740	30	4.0909	0.55343	31	4.5000	0.86956	32	4.7493	0.97407
33	5.0000	1.06795	34	5.7298	1.06795	35	5.8517	1.16416	36	6.1771	1.40383
37	7.5497	1.40383	38	7.8572	1.17574	39	7.9538	1.03558	40	8.0763	1.00511
41	9.1666	0.60929	42	10.3673	0.47221	43	11.2820	0.47221	44	11.6897	0.46003
45	11.8535	0.45373	46	13.7500	0.37924	47	15.0273	0.30554	48	27.5000	0.19310
49	39.5000	0.16923									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 5
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX ; DAMPING = 0.02
 FIGURE NO. 135-B DIRECTION 1 AT ELEVATION 808.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 135 DEGREE OF FREEDOM = 1 NUMBER OF GRIDS = 42 DAMPING VALUE = 0.020

1	0.9000	0.12719	2	0.9783	0.13676	3	1.0228	0.14034	4	1.0714	0.17729
5	1.2462	0.17729	6	1.2500	0.17808	7	1.3235	0.19102	8	1.3637	0.23936
9	1.4062	0.24337	10	1.5176	0.24337	11	1.6667	0.28328	12	1.7308	0.34686
13	1.8750	0.40809	14	1.9132	0.42050	15	2.0380	0.42050	16	2.1429	0.44819
17	2.6191	0.44819	18	2.6849	0.37899	19	2.7500	0.36795	20	2.7753	0.36795
21	2.8125	0.37397	22	3.4375	0.37397	23	3.4401	0.37367	24	3.6804	0.37367
25	3.7500	0.40289	26	4.0909	0.46151	27	4.5000	0.66992	28	5.0000	0.70626
29	6.1112	0.70626	30	6.2810	0.66243	31	7.5497	0.66243	32	7.8572	0.52802
33	8.0763	0.42700	34	9.2105	0.42700	35	9.2308	0.42859	36	11.2820	0.42859
37	11.6897	0.42557	38	11.8535	0.42228	39	13.7500	0.38104	40	15.0273	0.27100
41	27.5000	0.11754	42	39.5000	0.11468						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 6
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX ; DAMPING = 0.02
 FIGURE NO. 136-B DIRECTION 1 AT ELEVATION 783.58 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 136 DEGREE OF FREEDOM = 1 NUMBER OF GRIDS = 33 DAMPING VALUE = 0.020

1	0.9000	0.12440	2	0.9783	0.13194	3	1.0228	0.13483	4	1.0714	0.17148
5	1.2722	0.17148	6	1.3235	0.18018	7	1.3637	0.22602	8	1.4062	0.22880
9	1.5862	0.22880	10	1.6071	0.23204	11	1.7308	0.29411	12	1.8000	0.29582
13	1.8750	0.35034	14	1.9132	0.35738	15	2.1179	0.35738	16	2.1429	0.36357
17	2.6191	0.36357	18	2.6362	0.34227	19	2.9765	0.34227	20	3.0000	0.35361
21	3.6666	0.35361	22	3.6872	0.34372	23	3.7500	0.34372	24	4.0909	0.37936
25	4.5000	0.49308	26	5.0000	0.49308	27	7.2789	0.39370	28	9.5643	0.39370
29	11.6897	0.39370	30	13.7500	0.38069	31	15.0273	0.24785	32	27.5000	0.07892
33	39.5000	0.07747									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 7
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AY ; DAMPING = 0.02
 FIGURE NO. 131-B DIRECTION 2 AT ELEVATION 905.75 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 131 DEGREE OF FREEDOM = 2 NUMBER OF GRIDS = 39 DAMPING VALUE = 0.020

1	0.9000	0.09442	2	1.0228	0.10244	3	1.0714	0.13172	4	1.2300	0.13172
5	1.2500	0.13761	6	1.2921	0.13761	7	1.3637	0.18624	8	1.4997	0.18624
9	1.5000	0.18631	10	1.6071	0.20699	11	1.6667	0.24205	12	1.7308	0.31026

13	1.8000	0.41321	14	1.8750	0.50880	15	1.9129	0.52733	16	1.9132	0.52735
17	2.3026	0.52735	18	2.3190	0.53663	19	2.3220	0.53789	20	2.3684	0.54049
21	2.8948	0.54049	22	3.0556	0.50953	23	3.1378	0.48431	24	3.3018	0.48431
25	3.4616	0.51048	26	3.7500	0.75954	27	4.0909	0.87897	28	4.5000	1.55915
29	4.7493	1.68919	30	5.1049	1.85832	31	5.3731	2.17257	32	6.5671	2.17257
33	6.6869	2.08650	34	6.8527	1.95107	35	7.5497	1.95107	36	7.8572	1.79102
37	14.2000	1.79102	38	27.5000	0.80000	39	39.5000	0.66127			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 8
 FLOOR RESPONSE SPECTRA FOR 1/2SSSE; COMPONENT AY; DAMPING = 0.02
 FIGURE NO. 132-B DIRECTION 2 AT ELEVATION 885.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 132			DEGREE OF FREEDOM = 2			NUMBER OF GRIDS = 36			DAMPING VALUE = 0.020		
1	0.9000	0.09402	2	1.0228	0.10181	3	1.0714	0.13104	4	1.2307	0.13104
5	1.2500	0.13664	6	1.2922	0.13664	7	1.3637	0.18502	8	1.5039	0.18502
9	1.6071	0.20446	10	1.6667	0.23861	11	1.7308	0.30585	12	1.8000	0.40739
13	1.8750	0.50021	14	1.9129	0.51904	15	2.3099	0.51904	16	2.3190	0.52405
17	2.3220	0.52530	18	2.3684	0.52893	19	2.8948	0.52893	20	3.0556	0.49949
21	3.1312	0.47704	22	3.3202	0.47704	23	3.4616	0.49604	24	3.7500	0.73763
25	4.0909	0.83796	26	4.5000	1.46286	27	5.1049	1.72050	28	5.3731	2.04887
29	6.5671	2.04887	30	6.6869	1.96054	31	7.0766	1.64550	32	7.5497	1.64550
33	7.8572	1.54038	34	15.0273	1.54038	35	27.5000	0.71472	36	39.5000	0.54189

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 9
 FLOOR RESPONSE SPECTRA FOR 1/2SSSE; COMPONENT AY; DAMPING = 0.02
 FIGURE NO. 133-B DIRECTION 2 AT ELEVATION 860.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 133			DEGREE OF FREEDOM = 2			NUMBER OF GRIDS = 35			DAMPING VALUE = 0.020		
1	0.9000	0.09352	2	1.0228	0.10103	3	1.0714	0.13021	4	1.2316	0.13021
5	1.2500	0.13543	6	1.2925	0.13543	7	1.3637	0.18349	8	1.5094	0.18349
9	1.6071	0.20130	10	1.6667	0.23430	11	1.7308	0.30034	12	1.8000	0.40008
13	1.8750	0.48941	14	1.9129	0.50862	15	2.3193	0.50862	16	2.3220	0.50950
17	2.3684	0.51439	18	2.8948	0.51439	19	3.0556	0.48688	20	3.1224	0.46790
21	3.3243	0.46790	22	3.4616	0.48549	23	3.7500	0.71086	24	4.0909	0.78845
25	4.5000	1.34591	26	5.1049	1.55244	27	5.3731	1.89881	28	6.5671	1.89881
29	6.6869	1.80860	30	7.1521	1.43344	31	7.5497	1.26909	32	7.8572	1.22591
33	15.0273	1.22591	34	27.5000	0.51215	35	39.5000	0.39160			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 10
 FLOOR RESPONSE SPECTRA FOR 1/2SSSE; COMPONENT AY; DAMPING = 0.02
 FIGURE NO. 134-B DIRECTION 2 AT ELEVATION 832.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 134			DEGREE OF FREEDOM = 2			NUMBER OF GRIDS = 36			DAMPING VALUE = 0.020		
1	0.9000	0.09301	2	1.0228	0.10020	3	1.0714	0.12933	4	1.2326	0.12933
5	1.2500	0.13414	6	1.2927	0.13414	7	1.3637	0.18186	8	1.5158	0.18186
9	1.6071	0.19791	10	1.6667	0.22970	11	1.7308	0.29441	12	1.8000	0.39221
13	1.8750	0.47779	14	1.9129	0.49739	15	2.3379	0.49739	16	2.3384	0.49735
17	2.3579	0.49735	18	2.3684	0.49875	19	2.8948	0.49875	20	3.0556	0.47331
21	3.1120	0.45804	22	3.3257	0.45804	23	3.4616	0.47505	24	3.7500	0.68314
25	4.0909	0.73825	26	4.5000	1.22663	27	4.7493	1.26317	28	5.0000	1.28606
29	5.3731	1.74588	30	6.5671	1.74588	31	7.8240	0.89234	32	10.6383	0.89234
33	12.2951	0.88963	34	15.0273	0.88963	35	27.5000	0.29378	36	39.5000	0.24310

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 11
 FLOOR RESPONSE SPECTRA FOR 1/2SSSE; COMPONENT AY; DAMPING = 0.02
 FIGURE NO. 135-B DIRECTION 2 AT ELEVATION 808.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 135				DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 37		DAMPING VALUE = 0.020			
1	0.9000	0.05759	2	1.0228	0.09947	3	1.0714	0.12857	4	1.2336	0.12857
5	1.2500	0.13301	6	1.2929	0.13301	7	1.3637	0.18042	8	1.5217	0.18042
9	1.6071	0.19492	10	1.6667	0.22563	11	1.7308	0.28916	12	1.8000	0.38523
13	1.8750	0.46746	14	1.9129	0.48741	15	2.3379	0.48741	16	2.3384	0.48735
17	2.3435	0.48484	17	2.8948	0.48484	19	3.0556	0.46125	20	3.1019	0.44927
21	3.3269	0.44927	22	3.4616	0.46579	23	3.7500	0.65957	24	4.0909	0.69688
25	4.5000	1.12813	26	4.7493	1.13786	27	5.0000	1.14307	28	5.3731	1.61947
29	6.5671	1.61947	30	7.9538	0.77368	31	10.6383	0.76368	32	11.2820	0.64512
33	11.6897	0.63664	34	11.8379	0.61917	35	15.0273	0.61917	36	27.5000	0.18906
37	39.5000	0.10200									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 12
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AY; DAMPING = 0.02
 FIGURE NO. 136-B DIRECTION 2 AT ELEVATION 783.58 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 136				DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 32		DAMPING VALUE = 0.020			
1	0.9000	0.09184	2	1.0228	0.09781	3	1.0714	0.12706	4	1.2453	0.12706
5	1.2500	0.12823	6	1.2943	0.12823	7	1.3637	0.17309	8	1.6388	0.17309
9	1.6667	0.18176	10	1.8000	0.27470	11	1.8750	0.31134	12	1.9129	0.31841
13	2.3126	0.31841	14	2.3684	0.32408	15	2.6471	0.33572	16	2.8125	0.37197
17	3.0000	0.40104	18	3.2307	0.40104	19	3.4616	0.43655	20	3.7500	0.63247
21	4.0909	0.64894	22	4.5000	1.01091	23	5.0000	1.01110	24	5.1049	1.16656
25	5.3731	1.50115	26	6.5671	1.50115	27	7.8572	0.71671	28	10.6383	0.71671
29	11.3561	0.54193	30	15.0273	0.54193	31	27.5000	0.15642	32	39.5000	0.15189

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 13
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ; DAMPING = 0.02
 FIGURE NO. 131-B DIRECTION 3 AT ELEVATION 905.75 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 131				DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 40		DAMPING VALUE = 0.020			
1	0.9000	0.14573	2	0.9375	0.15475	3	0.9783	0.16161	4	1.0228	0.16689
5	1.0714	0.20758	6	1.1912	0.20758	7	1.2500	0.22979	8	1.3235	0.24699
9	1.3637	0.29883	10	1.4062	0.31880	11	1.4627	0.31880	12	1.5000	0.34298
13	1.6071	0.38363	14	1.6667	0.44925	15	1.7308	0.58003	16	1.8750	0.78816
17	1.9129	0.79088	18	2.0890	0.79088	19	2.1429	0.85287	20	2.6191	0.85287
21	2.7500	0.84066	22	2.8344	0.81557	23	2.8948	0.77364	24	3.0083	0.67220
25	3.5774	0.67220	26	3.7500	0.83752	27	4.0909	1.34814	28	4.5000	2.51049
29	4.7493	2.75371	30	5.1876	2.75371	31	5.6890	4.23272	32	6.9532	4.23272
33	7.8572	2.91029	34	8.4811	2.29647	35	9.1666	2.00942	36	10.6383	1.27246
37	11.8535	0.99094	38	13.7500	0.72780	39	27.5000	0.50196	40	39.5000	0.48343

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 14
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ; DAMPING = 0.02
 FIGURE NO. 132-B DIRECTION 3 AT ELEVATION 865.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 132				DEGREE OF FREEDOM = 3		NUMBER OF GRIDS = 41		DAMPING VALUE = 0.020			
1	0.9000	0.14211	2	0.9375	0.15026	3	0.9783	0.15652	4	1.0228	0.16134
5	1.0714	0.20073	6	1.1961	0.20073	7	1.2500	0.21907	8	1.3235	0.23491
9	1.3637	0.28635	10	1.4062	0.30348	11	1.4698	0.30348	12	1.5000	0.32132
13	1.6071	0.35527	14	1.6667	0.41433	15	1.7308	0.53169	16	1.8750	0.70938
17	2.0598	0.70938	18	2.1429	0.76962	19	2.6191	0.76962	20	2.7500	0.74238
21	2.8344	0.71761	22	2.8948	0.68167	23	2.9894	0.60871	24	3.5807	0.60871
25	3.7500	0.75318	26	4.0909	1.17985	27	4.7500	2.15590	28	4.9000	2.33147
29	5.2102	2.33147	30	5.6250	3.28341	31	5.6890	3.45351	32	6.9532	3.45351
33	7.8572	2.33823	34	8.4811	1.85299	35	9.1666	1.68682	36	10.6383	1.05100
37	11.2820	0.91433	38	11.8535	0.90103	39	13.7500	0.63404	40	27.5000	0.41720
41	39.5000	0.40148									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 15
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ ; DAMPING = 0.02
 FIGURE NO. 133-B DIRECTION 3 AT ELEVATION 860.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 133				DEGREE OF FREEDOM = 3				NUMBER OF GRIDS = 41				DAMPING VALUE = 0.020												
1	0.9000	0.13755	2	0.9375	0.14461	3	0.9783	0.15010	4	1.0228	0.15437	5	1.0714	0.19210	6	1.2041	0.19210	7	1.2500	0.20556	8	1.3235	0.21971	
9	1.3637	0.27063	10	1.4062	0.28417	11	1.4810	0.28417	12	1.5000	0.29404	13	1.6071	0.31956	14	1.6667	0.37037	15	1.7308	0.47083	16	1.8750	0.61018	
17	2.0601	0.61018	18	2.1429	0.66479	19	2.6191	0.66479	20	2.8344	0.59426	21	2.8948	0.56585	22	2.9548	0.52878	23	3.4375	0.52878	24	3.5266	0.49447	
25	3.5400	0.49447	26	3.7500	0.64701	27	4.0909	0.96797	28	4.7500	1.70942	29	4.9000	1.79977	30	5.2602	1.79977	31	5.6250	2.35717	32	5.6890	2.47228	
33	6.9532	2.47228	34	7.5497	1.87062	35	8.4811	1.29454	36	9.1666	1.28060	37	10.5091	0.85189	38	11.8535	0.85189	39	13.7500	0.51605	40	27.5000	0.31610	
41	39.5000	0.30124																						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 16
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ ; DAMPING = 0.02
 FIGURE NO. 134-B DIRECTION 3 AT ELEVATION 832.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 134				DEGREE OF FREEDOM = 3				NUMBER OF GRIDS = 41				DAMPING VALUE = 0.020												
1	0.9000	0.13264	2	0.9375	0.13851	3	0.9783	0.14319	4	1.0228	0.14684	5	1.0714	0.18279	6	1.2161	0.18279	7	1.2500	0.19100	8	1.3235	0.20343	
9	1.3637	0.25368	10	1.4062	0.26336	11	1.4972	0.26336	12	1.5000	0.26463	13	1.6071	0.28425	14	1.6667	0.32297	15	1.7308	0.40521	16	1.8750	0.50323	
17	2.0383	0.50323	18	2.1429	0.55173	19	2.6191	0.55173	20	2.6849	0.49300	21	2.7500	0.48516	22	2.7521	0.48469	23	2.8344	0.46123	24	2.8898	0.44261	
25	3.4375	0.44261	26	3.4869	0.43035	27	3.5677	0.43035	28	4.0909	0.73952	29	4.9000	1.22801	30	5.4820	1.22801	31	5.6215	1.35627	32	5.6890	1.41409	
33	6.9532	1.41409	34	7.9055	0.84259	35	9.1666	0.84259	36	9.5027	0.79895	37	11.8535	0.79895	38	13.7500	0.40639	39	15.8273	0.34508	40	27.5000	0.21438	
41	39.5000	0.19996																						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 17
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ ; DAMPING = 0.02
 FIGURE NO. 135-B DIRECTION 3 AT ELEVATION 808.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 135				DEGREE OF FREEDOM = 3				NUMBER OF GRIDS = 34				DAMPING VALUE = 0.020												
1	0.9000	0.12826	2	0.9375	0.13309	3	0.9783	0.13703	4	1.0228	0.14014	5	1.0714	0.17636	6	1.2414	0.17636	7	1.2500	0.17804	8	1.3235	0.19083	
9	1.3637	0.23858	10	1.4062	0.24482	11	1.5376	0.24482	12	1.6071	0.25625	13	1.6667	0.28418	14	1.7308	0.34677	15	1.8750	0.40799	16	1.9129	0.41991	
17	2.0341	0.41991	18	2.1429	0.45101	19	2.6191	0.45101	20	2.6849	0.38230	21	2.7491	0.36724	22	2.9870	0.36724	23	3.0000	0.37609	24	3.6293	0.37609	
25	3.7500	0.43070	26	4.0909	0.53613	27	4.5000	0.79937	28	5.5000	0.79937	29	9.6983	0.75184	30	11.8535	0.75184	31	13.7500	0.39579	32	15.8273	0.32082	
33	27.5000	0.12384	34	39.5000	0.11241																			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 18
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ ; DAMPING = 0.02
 FIGURE NO. 136-B DIRECTION 3 AT ELEVATION 783.58 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 136				DEGREE OF FREEDOM = 3				NUMBER OF GRIDS = 36				DAMPING VALUE = 0.020											
1	0.9000	0.12452	2	0.9375	0.12836	3	0.9783	0.13148	4	1.0228	0.13413	5	1.0714	0.17081	6	1.2703	0.17081	7	1.3235	0.17961	8	1.3637	0.22468

9	1.4062	0.22811	10	1.5920	0.22811	11	1.6071	0.23035	12	1.7308	0.29270
13	1.8000	0.29562	14	1.8750	0.34856	15	1.9129	0.35338	16	2.1065	0.35338
17	2.1429	0.35914	18	2.6191	0.35914	19	2.6345	0.34021	20	2.9755	0.34021
21	3.0000	0.35115	22	3.6666	0.35115	23	3.6696	0.34980	24	3.7500	0.34980
25	4.0909	0.37151	26	4.5000	0.43842	27	5.5000	0.43842	28	7.5000	0.42101
29	8.7041	0.51202	30	9.2308	0.61764	31	9.6983	0.70366	32	11.8535	0.70366
33	13.7500	0.37754	34	15.8273	0.29246	35	27.5000	0.08508	36	39.5000	0.07772

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 1
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.02
 FIGURE NO. 101-B DIRECTION 1 AT ELEVATION 905.75 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 101				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 46		DAMPING VALUE = 0.020			
1	0.9000	0.27612	2	0.9783	0.30273	3	1.0228	0.31390	4	1.0714	0.40419
5	1.2136	0.40419	6	1.2500	0.42864	7	1.3235	0.46263	8	1.3637	0.57627
9	1.4062	0.59427	10	1.4584	0.59427	11	1.5000	0.64745	12	1.6071	0.70347
13	1.6667	0.81320	14	1.7308	1.01390	15	1.8750	1.25714	16	1.9132	1.30110
17	1.9973	1.30110	18	2.1429	1.51257	19	2.6191	1.51257	20	2.6759	1.40498
21	2.7521	1.40498	22	2.8344	1.35937	23	2.8380	1.35737	24	2.8948	1.29242
25	3.0556	1.08269	26	3.0672	1.07723	27	3.4375	1.07723	28	3.4664	1.06769
29	3.6063	1.06769	30	3.7500	1.26778	31	4.0909	1.63836	32	4.5000	2.71845
33	4.7493	3.18528	34	4.9806	3.56501	35	5.0000	3.59453	36	5.5587	3.59453
37	5.6890	3.95154	38	6.1771	4.95107	39	7.5497	4.95107	40	7.8572	4.56611
41	8.0763	3.81990	42	9.1666	3.30691	43	11.2829	1.60270	44	13.7500	0.89942
45	15.8273	0.81890	46	39.5000	0.60179						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 2
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.02
 FIGURE NO. 102-B DIRECTION 1 AT ELEVATION 885.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 102				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 45		DAMPING VALUE = 0.020			
1	0.9000	0.27134	2	0.9783	0.29603	3	1.0228	0.30628	4	1.0714	0.39285
5	1.2179	0.39285	6	1.2500	0.41249	7	1.3235	0.44418	8	1.3637	0.55556
9	1.4062	0.57143	10	1.4654	0.57143	11	1.5000	0.61117	12	1.6071	0.65953
13	1.6667	0.75788	14	1.7308	0.94073	15	1.8750	1.15341	16	1.9132	1.20294
17	2.0012	1.20294	18	2.1429	1.38070	19	2.6191	1.38070	20	2.6794	1.26189
21	2.7521	1.26189	22	2.8344	1.21783	23	2.8380	1.21590	24	2.8948	1.16140
25	3.0321	1.00333	26	3.4375	1.00333	27	3.4712	0.99273	28	3.6129	0.99273
29	3.7500	1.16727	30	4.0909	1.48573	31	4.8000	2.40880	32	5.0500	2.77599
33	5.3500	3.09754	34	5.5854	3.09754	35	5.6250	3.19160	36	5.6890	3.33492
37	6.1771	4.13720	38	7.5497	4.13720	39	7.8572	3.77524	40	8.0763	3.15794
41	9.1666	2.68419	42	11.2820	1.34719	43	13.7500	0.77686	44	36.3036	0.51576
45	39.5000	0.51449									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 3
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.02
 FIGURE NO. 103-B DIRECTION 1 AT ELEVATION 860.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 103				DEGREE OF FREEDOM = 1		NUMBER OF GRIDS = 44		DAMPING VALUE = 0.020			
1	0.9000	0.26533	2	0.9783	0.28760	3	1.0228	0.29669	4	1.0714	0.37857
5	1.2247	0.37857	6	1.2500	0.39217	7	1.3235	0.42106	8	1.3637	0.52949
9	1.4062	0.54268	10	1.4768	0.54268	11	1.5000	0.56549	12	1.6071	0.60834
13	1.6667	0.68826	14	1.7308	0.84864	15	1.9132	1.07936	16	2.0082	1.07936
17	2.1429	1.21468	18	2.6191	1.21468	19	2.6834	1.08198	20	2.7500	1.08198
21	2.7521	1.08172	22	2.8344	1.03963	23	2.8380	1.03778	24	2.8948	0.99646
25	2.9843	0.91053	26	3.4375	0.91053	27	3.4780	0.89862	28	3.6229	0.89862
29	3.7500	1.04142	30	4.0909	1.29501	31	4.7000	2.02125	32	5.0500	2.26244
33	5.2500	2.47316	34	5.6262	2.47316	35	5.6890	2.56283	36	6.1771	3.11421
37	7.5497	3.11421	38	7.8572	2.79694	39	8.0763	2.32693	40	9.1666	1.90130
41	11.2820	1.02870	42	13.7500	0.68296	43	27.5000	0.45774	44	39.5000	0.39629

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 4
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02
 FIGURE NO. 104-B DIRECTION 1 AT ELEVATION 832.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 104			DEGREE OF FREEDOM = 1			NUMBER OF GRIDS = 46			DAMPING VALUE = 0.020		
1	0.9000	0.25884	2	0.9783	0.27852	3	1.0228	0.28635	4	1.0714	0.36319
5	1.2345	0.36319	6	1.2500	0.37028	7	1.3235	0.39893	8	1.3637	0.50133
9	1.4062	0.51169	10	1.4943	0.51169	11	1.5000	0.51625	12	1.6667	0.61328
13	1.7308	0.74943	14	1.9132	0.94613	15	2.0210	0.94613	16	2.1429	1.03571
17	2.6191	1.03571	18	2.6849	0.89308	19	2.7500	0.88821	20	2.7521	0.88747
21	2.8344	0.84752	22	2.8948	0.81865	23	2.9050	0.81089	24	3.4375	0.81089
25	3.4863	0.79762	26	3.6364	0.79762	27	3.7500	0.90697	28	4.0909	1.09214
29	4.7000	1.60833	30	5.0500	1.71292	31	5.2500	1.80343	32	5.7730	1.80343
33	6.1771	2.01673	34	7.5497	2.01673	35	7.8572	1.76176	36	8.0763	1.43934
37	9.1666	1.06191	38	10.2384	0.87631	39	11.2820	0.87631	40	11.6897	0.85287
41	11.8535	0.84167	42	13.7500	0.70727	43	15.0273	0.53215	44	15.8273	0.51750
45	27.5000	0.31504	46	39.5000	0.28263						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 5
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02
 FIGURE NO. 105-B DIRECTION 1 AT ELEVATION 808.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 105			DEGREE OF FREEDOM = 1			NUMBER OF GRIDS = 42			DAMPING VALUE = 0.020		
1	0.9000	0.25364	2	0.9783	0.27044	3	1.0228	0.27716	4	1.0714	0.35320
5	1.2550	0.35320	6	1.3235	0.37922	7	1.3637	0.47635	8	1.4062	0.48409
9	1.5216	0.48409	10	1.6667	0.55876	11	1.7308	0.66117	12	1.9132	0.82749
13	2.0443	0.82749	14	2.1429	0.87637	15	2.6191	0.87637	16	2.6849	0.72760
17	2.7500	0.71566	18	2.7917	0.71566	19	2.8125	0.72268	20	3.4375	0.72268
21	3.4407	0.72194	22	3.6678	0.72194	23	3.7500	0.78940	24	4.0909	0.91655
25	4.5000	1.25147	26	5.5000	1.25147	27	6.0874	1.22086	28	6.1112	1.21858
29	6.4619	1.10530	30	6.8750	1.10530	31	7.1360	1.05920	32	7.5497	1.05920
33	7.8572	0.85995	34	8.0763	0.80858	35	11.2820	0.80858	36	11.6897	0.80203
37	11.8535	0.79691	38	13.7500	0.73137	39	15.0273	0.48729	40	15.8273	0.43984
41	27.5000	0.21534	42	39.5000	0.20963						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 6
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02
 FIGURE NO. 106-B DIRECTION 1 AT ELEVATION 783.58 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 106			DEGREE OF FREEDOM = 1			NUMBER OF GRIDS = 35			DAMPING VALUE = 0.020		
1	0.9000	0.24884	2	0.9783	0.26257	3	1.0228	0.26820	4	1.0714	0.34351
5	1.2767	0.34351	6	1.3235	0.35943	7	1.3637	0.45123	8	1.4062	0.45639
9	1.5889	0.45639	10	1.6071	0.46193	11	1.7308	0.57390	12	1.8000	0.59758
13	1.8750	0.69765	14	1.9129	0.70880	15	1.9132	0.70890	16	2.1253	0.70890
17	2.1429	0.71671	18	2.6191	0.71671	19	2.6354	0.67809	20	2.9723	0.67809
21	3.0000	0.70596	22	3.6666	0.70596	23	3.6934	0.68130	24	3.7500	0.68130
25	4.0909	0.75765	26	4.5000	0.93126	27	5.5000	0.93126	28	6.0075	0.75813
29	9.5643	0.75813	30	11.6897	0.75813	31	13.7500	0.75288	32	15.0273	0.45461
33	15.8273	0.40401	34	27.5000	0.15392	35	39.5000	0.15007			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 7
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.02
 FIGURE NO. 101-B DIRECTION 2 AT ELEVATION 905.75 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 101			DEGREE OF FREEDOM = 2			NUMBER OF GRIDS = 35			DAMPING VALUE = 0.020		
1	0.9000	0.18745	2	1.0228	0.20138	3	1.0714	0.26152	4	1.2351	0.26152
5	1.2500	0.26981	6	1.2926	0.26981	7	1.3637	0.36510	8	1.4996	0.36510

9	1.5000	0.36530	10	1.6071	0.39509	11	1.6667	0.45421	12	1.8000	0.70911
13	1.8750	0.83400	14	1.9129	0.84315	15	2.1154	0.84315	16	2.1429	0.88232
17	2.2517	0.89287	18	2.3190	0.93648	19	2.3220	0.93785	20	2.3684	0.95079
21	2.9740	0.95079	22	3.0000	0.95676	23	3.3193	0.95676	24	3.4616	1.00530
25	3.7500	1.47867	26	4.0909	1.66438	27	4.8500	2.82949	28	5.1049	3.18692
29	5.3731	3.81125	30	6.5671	3.81125	31	6.6869	3.67890	32	7.5497	3.03110
33	15.0273	3.03110	34	27.5000	1.42463	35	39.5000	1.07580			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 8
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.02
 FIGURE NO. 192-B DIRECTION 2 AT ELEVATION 885.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 102 DEGREE OF FREEDOM = 2 NUMBER OF GRIDS = 35 DAMPING VALUE = 0.020

1	0.9000	0.18676	2	1.0228	0.20045	3	1.0714	0.26033	4	1.2356	0.26033
5	1.2500	0.26819	6	1.2928	0.26819	7	1.3637	0.36304	8	1.5059	0.36304
9	1.6071	0.39058	10	1.6667	0.44834	11	1.8000	0.69972	12	1.8750	0.82095
13	1.9129	0.83045	14	2.1189	0.83045	15	2.1429	0.86190	16	2.2517	0.87326
17	2.3190	0.91495	18	2.3220	0.91629	19	2.3684	0.92918	20	2.9430	0.92918
21	3.0000	0.94282	22	3.3412	0.94282	23	3.4616	0.97651	24	3.7500	1.43865
25	4.0909	1.59234	26	4.8500	2.67160	27	4.9500	2.73992	28	5.1049	2.96767
29	5.3731	3.60309	30	6.5671	3.60309	31	6.6869	3.46359	32	7.5497	2.61322
33	15.0273	2.61322	34	27.5000	1.17092	35	39.5000	0.88750			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 9
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.02
 FIGURE NO. 103-B DIRECTION 2 AT ELEVATION 860.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 103 DEGREE OF FREEDOM = 2 NUMBER OF GRIDS = 35 DAMPING VALUE = 0.020

1	0.9000	0.18591	2	1.0228	0.19928	3	1.0714	0.25885	4	1.2363	0.25885
5	1.2500	0.26618	6	1.2930	0.26618	7	1.3637	0.36047	8	1.5145	0.36047
9	1.6071	0.38495	10	1.6667	0.44101	11	1.8000	0.68794	12	1.8750	0.80456
13	1.9129	0.81449	14	2.1243	0.81449	15	2.1429	0.83632	16	2.2517	0.84865
17	2.3190	0.88794	18	2.3220	0.88924	19	2.3684	0.90204	20	2.9077	0.90204
21	3.0000	0.92528	22	3.3515	0.92528	23	3.4616	0.95351	24	3.7500	1.38971
25	4.0909	1.50596	26	4.7000	2.48009	27	4.9000	2.50498	28	5.0000	2.52030
29	5.3731	3.35048	30	6.5671	3.35048	31	6.6869	3.20368	32	7.8795	2.08964
33	15.0273	2.08964	34	27.5000	0.85154	35	39.5000	0.65056			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 10
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.02
 FIGURE NO. 104-B DIRECTION 2 AT ELEVATION 832.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 104 DEGREE OF FREEDOM = 2 NUMBER OF GRIDS = 30 DAMPING VALUE = 0.020

1	0.9000	0.18502	2	1.0228	0.19805	3	1.0714	0.25730	4	1.2371	0.25730
5	1.2500	0.26403	6	1.2932	0.26403	7	1.3637	0.35773	8	1.5243	0.35773
9	1.6071	0.37893	10	1.6667	0.43318	11	1.8000	0.67529	12	1.8750	0.78695
13	1.9129	0.79733	14	2.1316	0.79733	15	2.1429	0.80890	16	2.3684	0.87290
17	2.8737	0.87290	18	3.0000	0.90637	19	3.3541	0.90637	20	3.4616	0.93307
21	3.7500	1.33891	22	4.0909	1.41914	23	4.6000	2.28487	24	5.0143	2.28487
25	5.3731	3.09275	26	6.5671	3.09275	27	7.9652	1.54831	28	15.0273	1.54831
29	27.5000	0.50746	30	39.5000	0.41857						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 11
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.02
 FIGURE NO. 105-B DIRECTION 2 AT ELEVATION 808.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 105 DEGREE OF FREEDOM = 2 NUMBER OF GRIDS = 35 DAMPING VALUE = 0.020

1	0.9000	0.18423	2	1.0228	0.19696	3	1.0714	0.25595	4	1.2379	0.25595
5	1.2500	0.26214	6	1.2934	0.26214	7	1.3637	0.35531	8	1.5333	0.35531
9	1.6071	0.37362	10	1.6667	0.42627	11	1.8000	0.66408	12	1.8750	0.77132
13	1.9129	0.78208	14	2.1400	0.78208	15	2.1429	0.78463	16	2.3684	0.84704
17	2.8463	0.84704	18	3.0000	0.88954	19	3.3566	0.88954	20	3.4616	0.91494
21	3.7500	1.29559	22	4.0909	1.34834	23	4.5000	2.12341	24	5.0373	2.12341
25	5.1049	2.28719	26	5.3731	2.87922	27	6.5671	2.87922	28	8.0001	1.32285
29	10.6383	1.32285	30	11.2820	1.14652	31	11.6897	1.13211	32	11.8794	1.09714
33	15.0273	1.09714	34	27.5000	0.33699	35	39.5000	0.32629			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 12
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY ; DAMPING = 0.02
 FIGURE NO. 106-B DIRECTION 2 AT ELEVATION 783.58 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 106				DEGREE OF FREEDOM = 2				NUMBER OF GRIDS = 32				DAMPING VALUE = 0.02J																																																																																			
1	0.9000	0.18279	2	1.0228	0.19462	3	1.0714	0.25336	4	1.2471	0.25336	5	1.2500	0.25474	6	1.2938	0.25474	7	1.3235	0.29385	8	1.3637	0.34394	9	1.6461	0.34394	10	1.6667	0.35565	11	1.8000	0.50941	12	1.8750	0.55741	13	1.9129	0.55788	14	2.0924	0.55788	15	2.1429	0.57840	16	2.3684	0.59617	17	3.0000	0.79999	18	3.2574	0.79999	19	3.4616	0.86187	20	3.7500	1.24809	21	4.0909	1.27031	22	4.5000	1.93425	23	5.0192	1.93425	24	5.1049	2.15294	25	5.3731	2.68783	26	6.5671	2.68783	27	7.9115	1.24044	28	10.6383	1.24044	29	11.3933	0.96213	30	15.0273	0.96213	31	27.5000	0.28498	32	39.5000	0.27787

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 13
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.02
 FIGURE NO. 101-B DIRECTION 3 AT ELEVATION 905.75 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 101				DEGREE OF FREEDOM = 3				NUMBER OF GRIDS = 45				DAMPING VALUE = 0.020																																																																																																																										
1	0.9000	0.28413	2	0.9375	0.29940	3	0.9783	0.31092	4	1.0228	0.32050	5	1.0714	0.40977	6	1.2032	0.40977	7	1.2500	0.44144	8	1.3235	0.47358	9	1.3637	0.59125	10	1.4062	0.62145	11	1.4619	0.62145	12	1.5000	0.67019	13	1.6071	0.72546	14	1.7308	1.04980	15	1.8750	1.31174	16	1.9129	1.36940	17	2.0347	1.36940	18	2.0454	1.38099	19	2.1429	1.63345	20	2.6191	1.63345	21	2.6773	1.50766	22	2.7521	1.50766	23	2.8344	1.45783	24	2.8948	1.37439	25	3.0398	1.17467	26	3.4375	1.17467	27	3.4863	1.14867	28	3.4994	1.14867	29	3.7500	1.57737	30	4.3000	2.41260	31	4.8000	4.19429	32	4.9000	4.46285	33	5.2257	4.46285	34	5.4711	5.09180	35	5.6890	6.08342	36	6.9532	6.08342	37	7.1521	5.37912	38	7.5497	4.61490	39	7.8572	4.47104	40	9.1666	3.12374	41	11.6897	1.69441	42	11.8535	1.67747	43	13.7500	1.14230	44	27.5000	0.74609	45	39.5000	0.71600

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 14
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.02
 FIGURE NO. 102-B DIRECTION 3 AT ELEVATION 885.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 102				DEGREE OF FREEDOM = 3				NUMBER OF GRIDS = 44				DAMPING VALUE = 0.020																																																																																																																							
1	0.9000	0.27811	2	0.9375	0.29194	3	0.9783	0.30257	4	1.0228	0.31143	5	1.0714	0.39697	6	1.2081	0.39697	7	1.2500	0.42263	8	1.3235	0.45363	9	1.3637	0.56720	10	1.4062	0.59327	11	1.4689	0.59327	12	1.5000	0.62915	13	1.6071	0.67677	14	1.7308	0.96930	15	1.9129	1.25655	16	2.0392	1.25655	17	2.0454	1.26227	18	2.1429	1.47726	19	2.6191	1.47726	20	2.6805	1.34220	21	2.7521	1.34220	22	2.8344	1.29492	23	2.8948	1.22580	24	3.0154	1.07951	25	3.4375	1.07951	26	3.4836	1.05780	27	3.5125	1.05780	28	3.7500	1.42375	29	4.3500	2.11868	30	4.9000	3.60850	31	5.0000	3.78919	32	5.2649	3.78919	33	5.4711	4.20059	34	5.6890	4.98797	35	6.9532	4.98797	36	7.1521	4.39906	37	7.5497	3.75107	38	7.8572	3.60551	39	10.6383	1.81421	40	11.1991	1.60808	41	11.8535	1.60808	42	13.7500	1.01666	43	27.5000	0.62867	44	39.5000	0.60256

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 15
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.02
 FIGURE NO. 103-B DIRECTION 3 AT ELEVATION 860.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 103			DEGREE OF FREEDOM = 3			NUMBER OF GRIDS = 45			DAMPING VALUE = 0.020		
1	0.9000	0.27054	2	0.9375	0.28256	3	0.9783	0.29207	4	1.0228	0.30002
5	1.0714	0.38086	6	1.2159	0.38086	7	1.2500	0.39894	8	1.3235	0.42915
9	1.3637	0.53692	10	1.4062	0.55778	11	1.4802	0.55778	12	1.5000	0.57747
13	1.6071	0.61778	14	1.6667	0.70767	15	1.7308	0.86794	16	1.9129	1.11444
17	2.0080	1.11444	18	2.1429	1.28058	19	2.6191	1.28058	20	2.6843	1.13392
21	2.7500	1.13392	22	2.7521	1.13384	23	2.8344	1.08978	24	2.8948	1.03869
25	2.9732	0.95973	26	3.4375	0.55973	27	3.4791	0.94343	28	3.5260	0.94343
29	4.0909	1.74862	30	4.8500	2.87089	31	4.9000	2.94090	32	5.3638	2.94090
33	5.4711	3.07834	34	5.6890	3.60851	35	6.9532	3.60851	36	7.1521	3.16491
37	7.5497	2.66327	38	7.8572	2.51557	39	8.4811	2.13720	40	9.1666	2.03139
41	10.2825	1.52076	42	11.8535	1.52076	43	13.7500	0.85871	44	27.5000	0.49896
45	39.5000	0.47224									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 16
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.02
 FIGURE NO. 104-B DIRECTION 3 AT ELEVATION 832.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 104			DEGREE OF FREEDOM = 3			NUMBER OF GRIDS = 44			DAMPING VALUE = 0.020		
1	0.9000	0.26237	2	0.9375	0.27243	3	0.9783	0.28073	4	1.0228	0.28772
5	1.0714	0.36387	6	1.2284	0.36387	7	1.2500	0.37341	8	1.3235	0.40275
9	1.3637	0.50427	10	1.4062	0.51952	11	1.4973	0.51952	12	1.5000	0.52175
13	1.6071	0.55971	14	1.6667	0.62287	15	1.7308	0.75866	16	1.9129	0.96119
17	2.0173	0.96119	18	2.1429	1.06847	19	2.6191	1.06847	20	2.6849	0.91715
21	2.7500	0.90975	22	2.7521	0.90915	23	2.8344	0.86855	24	2.8948	0.83690
25	2.9028	0.83062	26	3.4375	0.83062	27	3.4715	0.82019	28	3.5663	0.82019
29	3.7500	1.02186	30	4.0909	1.34963	31	4.9000	2.07557	32	5.6489	2.07557
33	5.6890	2.12086	34	6.9532	2.12086	35	7.1521	1.83398	36	7.8053	1.37492
37	9.4659	1.37492	38	9.5643	1.39747	39	9.6983	1.42668	40	11.8535	1.42668
41	13.7500	0.76349	42	15.8273	0.64275	43	27.5000	0.36263	44	39.5000	0.33352

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 17
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.02
 FIGURE NO. 105-B DIRECTION 3 AT ELEVATION 808.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 105			DEGREE OF FREEDOM = 3			NUMBER OF GRIDS = 33			DAMPING VALUE = 0.020		
1	0.9000	0.25510	2	0.9375	0.26342	3	0.9783	0.27064	4	1.0228	0.27676
5	1.0714	0.35220	6	1.2507	0.35220	7	1.3235	0.37923	8	1.3637	0.47518
9	1.4062	0.48542	10	1.5389	0.48542	11	1.6071	0.50797	12	1.7308	0.66135
13	1.9129	0.82466	14	2.0370	0.82466	15	2.1429	0.87951	16	2.6191	0.87951
17	2.6849	0.72507	18	2.7500	0.71004	19	2.7890	0.71004	20	2.8125	0.71754
21	2.9915	0.71754	22	3.0000	0.72643	23	3.6267	0.72643	24	3.7500	0.83627
25	4.0909	0.99439	26	4.5000	1.36742	27	5.5000	1.36742	28	9.6983	1.34296
29	10.8000	1.34296	30	13.7500	0.75275	31	15.8273	0.60957	32	27.5000	0.24132
33	39.5000	0.21008									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 18
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.02
 FIGURE NO. 106-B DIRECTION 3 AT ELEVATION 783.58 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 106			DEGREE OF FREEDOM = 3			NUMBER OF GRIDS = 35			DAMPING VALUE = 0.020		
1	0.9000	0.24893	2	0.9375	0.25559	3	0.9783	0.26179	4	1.0228	0.26719

17

5	1.0714	0.34231	6	1.2755	0.34231	7	1.3235	0.35824	8	1.3637	0.44883
9	1.4062	0.45470	10	1.5885	0.45470	11	1.6071	0.46046	12	1.7308	0.57174
13	1.8000	0.59620	14	1.8750	0.69327	15	1.9129	0.70047	16	2.1203	0.70047
17	2.1429	0.70749	18	2.6191	0.70749	19	2.6313	0.67731	20	2.9761	0.67731
21	3.0000	0.70165	22	3.6666	0.70165	23	3.6748	0.69406	24	3.7500	0.69406
25	4.5000	0.79809	26	5.5000	0.79809	27	8.7041	0.94490	28	9.2308	1.12674
29	9.5643	1.23458	30	9.6983	1.27475	31	11.1000	1.27475	32	13.7500	0.73437
33	15.8273	0.57347	34	27.5000	0.18718	35	39.5000	0.15959			

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 1
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03
 FIGURE NO. 107-B DIRECTION 1 AT ELEVATION 905.75 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 107			DEGREE OF FREEDOM = 1			NUMBER OF GRIDS = 41			DAMPING VALUE = 0.030		
1	0.9000	0.25942	2	1.0228	0.30320	3	1.0714	0.34489	4	1.1250	0.35192
5	1.1842	0.35890	6	1.3637	0.46672	7	1.4516	0.52963	8	1.5000	0.59095
9	1.6071	0.64417	10	1.7308	0.85522	11	1.8000	0.94096	12	1.8750	1.02752
13	1.9132	1.03112	14	1.9605	1.03112	15	2.0454	1.17014	16	2.1429	1.23408
17	2.1967	1.24160	18	2.6849	1.24160	19	2.7521	1.23807	20	2.8380	1.19939
21	3.0556	1.00114	22	3.1342	0.92601	23	3.5954	0.92601	24	3.7500	1.11301
25	4.0909	1.44999	26	4.7493	2.60457	27	4.9806	3.00582	28	5.0000	3.02545
29	5.5551	3.02545	30	5.6250	3.17942	31	5.6890	3.28984	32	5.8517	3.50065
33	6.1771	3.88934	34	7.5497	3.88934	35	7.8572	3.72513	36	8.2090	3.11781
37	9.1666	2.80025	38	11.2820	1.45800	39	13.7500	0.89437	40	15.8273	0.78833
41	39.5000	0.58541									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 2
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03
 FIGURE NO. 108-B DIRECTION 1 AT ELEVATION 885.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 108			DEGREE OF FREEDOM = 1			NUMBER OF GRIDS = 38			DAMPING VALUE = 0.030		
1	0.9000	0.25473	2	0.9375	0.26802	3	1.0228	0.29575	4	1.0714	0.33561
5	1.1250	0.34134	6	1.1842	0.34723	7	1.4516	0.50279	8	1.5000	0.55673
9	1.6667	0.66906	10	1.7308	0.79265	11	1.8000	0.86900	12	1.8750	0.94192
13	1.9132	0.95089	14	1.9615	0.95089	15	2.0454	1.06823	16	2.1429	1.12027
17	2.1967	1.12302	18	2.6849	1.12302	19	2.7521	1.11660	20	2.8380	1.08093
21	3.1146	0.86209	22	3.6021	0.86209	23	3.7500	1.02303	24	4.0909	1.31229
25	5.4000	2.60809	26	5.5814	2.60809	27	5.6250	2.68696	28	5.6890	2.77388
29	5.8517	2.94252	30	6.1771	3.25288	31	7.5497	3.25288	32	7.8572	3.08079
33	8.2090	2.57895	34	9.1666	2.28231	35	11.2820	1.22295	36	13.7500	0.76322
37	27.5000	0.56032	38	39.5000	0.49268						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 3
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03
 FIGURE NO. 109-B DIRECTION 1 AT ELEVATION 860.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 109			DEGREE OF FREEDOM = 1			NUMBER OF GRIDS = 36			DAMPING VALUE = 0.030		
1	0.9000	0.24882	2	0.9375	0.26130	3	1.0228	0.28638	4	1.0714	0.32393
5	1.1842	0.33253	6	1.3637	0.42750	7	1.6667	0.61475	8	1.7308	0.71391
9	1.6000	0.77845	10	1.8750	0.83420	11	1.9132	0.84989	12	1.9634	0.84989
13	2.0454	0.93992	14	2.1429	0.97699	15	2.6191	0.97699	16	2.6849	0.97373
17	2.7500	0.96412	18	2.7521	0.96366	19	2.8380	0.93180	20	3.0867	0.78184
21	3.6124	0.78184	22	3.7500	0.91043	23	4.0909	1.14026	24	5.4000	2.08375
25	5.6399	2.08375	26	5.6890	2.12767	27	5.8517	2.24249	28	6.1771	2.45321
29	7.5497	2.45321	30	7.8572	2.28858	31	8.2090	1.90195	32	9.1666	1.63139
33	11.2820	0.92942	34	13.7500	0.63597	35	27.5000	0.43389	36	39.5000	0.38326

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 4
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03
 FIGURE NO. 110-B DIRECTION 1 AT ELEVATION 832.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 110	DEGREE OF FREEDOM = 1	NUMBER OF GRIDS = 38	DAMPING VALUE = 0.030
1 0.9000	0.24246	2 1.0228	4 1.0714
5 1.842	0.31670	7 1.5000	8 1.6667
9 1.7308	0.62909	11 1.9132	12 2.0454
13 2.1429	0.82253	15 2.6849	15 2.7500
17 2.8380	0.77104	19 2.9755	20 3.6273
21 3.7500	0.79025	23 5.2500	24 5.9228
25 6.1771	1.59626	27 7.5497	28 8.2090
29 9.1666	0.93425	31 11.2820	32 11.6897
33 11.8535	0.72528	35 15.0273	36 15.8273
37 27.5000	0.29941		

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX 1; DAMPING = 0.03
 FIGURE NO. 111-B DIRECTION 1 AT ELEVATION 808.00 FEET

BROADENED SPECTRUM FOR NODE= 111	DEGREE OF FREEDOM = 1	NUMBER OF GRIDS = 34	DAMPING VALUE = 0.030
1 0.9000	0.23718	2 1.0228	4 1.0714
5 1.2500	0.32532	7 1.6071	8 1.6667
9 1.7308	0.55363	11 2.0454	12 2.1429
13 2.6191	0.68501	15 2.7500	16 2.8711
17 3.6451	0.61945	19 4.5000	20 4.7493
21 4.9806	1.04378	23 6.2393	24 6.8750
25 7.1755	0.85175	27 8.2090	28 11.6897
29 11.8535	0.66497	31 15.0273	32 15.8273
33 27.5000	0.21390		

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX 1; DAMPING = 0.03
 FIGURE NO. 112-B DIRECTION 1 AT ELEVATION 783.58 FEET

BROADENED SPECTRUM FOR NODE= 112	DEGREE OF FREEDOM = 1	NUMBER OF GRIDS = 28	DAMPING VALUE = 0.030
1 0.9000	0.23261	2 1.0228	4 1.0714
5 1.2500	0.30690	7 1.3637	8 1.6071
9 1.6667	0.45946	11 2.2916	12 2.5000
13 2.6191	0.54721	15 2.8125	16 3.4375
17 3.6666	0.57075	19 3.7500	20 4.0909
21 4.5000	0.71028	23 6.1112	24 12.5000
25 15.0273	0.40654	27 27.5000	28 39.5000

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX 2; DAMPING = 0.03
 FIGURE NO. 107-B DIRECTION 2 AT ELEVATION 905.75 FEET

BROADENED SPECTRUM FOR NODE= 107	DEGREE OF FREEDOM = 2	NUMBER OF GRIDS = 44	DAMPING VALUE = 0.030
1 0.9000	0.17300	3 1.0714	4 1.1250
5 1.1927	0.22270	7 1.2890	8 1.3235
9 1.3637	0.30850	11 1.5000	12 1.6071
13 1.7308	0.48048	15 1.8750	16 1.9129
17 1.9132	0.68629	19 2.1429	20 2.1967
21 2.2503	0.79467	23 2.3190	24 2.3220
25 2.3684	0.84053	27 2.9988	28 3.0000
29 3.4616	0.89459	31 5.0909	32 4.8500
33 5.0000	2.53774	35 5.3731	36 6.5671
37 6.6869	3.12637	39 6.9532	40 7.1521
41 7.5497	2.59441	43 27.5000	44 39.5000

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03
 FIGURE NO. 108-B DIRECTION 2 AT ELEVATION 885.50 FEET SET NO. = 8
 NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 108			DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 41		DAMPING VALUE = 0.030				
1	0.9000	0.17248	2	1.0228	0.19274	3	1.0714	0.22136	4	1.1250	0.22164
5	1.1929	0.22164	6	1.2500	0.24491	7	1.2892	0.24491	8	1.3235	0.27619
9	1.3637	0.30658	10	1.4610	0.30658	11	1.5000	0.32845	12	1.6071	0.35377
13	1.7308	0.47376	14	1.8000	0.57574	15	1.8750	0.66464	16	1.9129	0.67585
17	1.9132	0.67588	18	2.1029	0.67588	19	2.1967	0.74331	20	2.2500	0.77822
21	2.2517	0.77928	22	2.3190	0.81161	23	2.3220	0.81257	24	2.3684	0.82035
25	2.8948	0.82035	26	2.9460	0.81422	27	3.0000	0.81422	28	3.4616	0.87893
29	3.7500	1.17658	30	4.0909	1.47319	31	4.8000	2.21380	32	4.9500	2.37503
33	5.1049	2.56252	34	5.3731	3.00819	35	6.5671	3.00819	36	6.6869	2.94266
37	6.9532	2.68915	38	7.8572	2.23864	39	15.0273	2.23864	40	27.5000	1.10396
41	39.5000	0.84643									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03
 FIGURE NO. 109-B DIRECTION 2 AT ELEVATION 860.00 FEET SET NO. = 9
 NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 109			DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 36		DAMPING VALUE = 0.030				
1	0.9000	0.17183	2	1.0228	0.19160	3	1.0714	0.21997	4	1.1250	0.22032
5	1.1930	0.22032	6	1.2500	0.24296	7	1.2895	0.24296	8	1.3235	0.27379
9	1.3637	0.30418	10	1.4639	0.30418	11	1.5000	0.32382	12	1.6071	0.34845
13	1.7308	0.46534	14	1.8000	0.56606	15	1.8750	0.65138	16	1.9129	0.66279
17	1.9132	0.66282	18	2.1085	0.66282	19	2.2517	0.75869	20	2.3190	0.78790
21	2.3220	0.78874	22	2.3684	0.79503	23	2.9876	0.79503	24	3.0000	0.79852
25	3.4616	0.86160	26	3.7500	1.13270	27	4.0909	1.39178	28	4.9000	2.05889
29	5.1049	2.34087	30	5.3731	2.79339	31	6.5671	2.79339	32	6.6869	2.72116
33	8.0024	1.79303	34	15.0273	1.79303	35	27.5000	0.80265	36	39.5000	0.62051

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03
 FIGURE NO. 110-B DIRECTION 2 AT ELEVATION 832.50 FEET SET NO. = 10
 NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 110			DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 36		DAMPING VALUE = 0.030				
1	0.9000	0.17114	2	1.0228	0.19039	3	1.0714	0.21851	4	1.1250	0.21904
5	1.1935	0.21904	6	1.2500	0.24089	7	1.2899	0.24089	8	1.3235	0.27123
9	1.3637	0.30162	10	1.4672	0.30162	11	1.5000	0.31890	12	1.6071	0.34278
13	1.7308	0.45631	14	1.8000	0.55567	15	1.8750	0.63713	16	1.9129	0.64875
17	1.9132	0.54877	18	2.1099	0.64877	19	2.2517	0.73659	20	2.3190	0.76244
21	2.3220	0.76315	22	2.3684	0.76784	23	2.9519	0.76784	24	3.0000	0.78161
25	3.4616	0.84298	26	3.7500	1.08751	27	4.0909	1.30974	28	4.8000	1.90076
29	5.1049	2.11569	30	5.3731	2.57507	31	6.5671	2.57507	32	6.6869	2.49774
33	8.1333	1.31840	34	15.0273	1.31840	35	27.5000	0.47811	36	39.5000	0.40263

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.03
 FIGURE NO. 111-B DIRECTION 2 AT ELEVATION 808.00 FEET SET NO. = 11
 NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 111			DEGREE OF FREEDOM = 2		NUMBER OF GRIDS = 37		DAMPING VALUE = 0.030				
1	0.9000	0.17053	2	1.0228	0.18933	3	1.0714	0.21724	4	1.1250	0.21800
5	1.1942	0.21800	6	1.2500	0.23907	7	1.2902	0.23907	8	1.3235	0.26899
9	1.3637	0.29935	10	1.4702	0.29935	11	1.5000	0.31458	12	1.6071	0.33778
13	1.7308	0.44832	14	1.8000	0.54645	15	1.8750	0.62447	16	1.9129	0.63629
17	1.9132	0.63630	18	2.1114	0.63630	19	2.2517	0.71700	20	2.3190	0.73987
21	2.3220	0.74046	22	2.3684	0.74373	23	2.9214	0.74373	24	3.0000	0.76656

25	3.4616	0.82646	26	3.7500	1.04935	27	4.0909	1.24264	28	5.0000	1.84423
29	5.3731	2.39519	30	6.5671	2.39519	31	6.6869	2.31586	32	8.2090	1.05772
33	10.6383	1.05772	34	11.6686	0.94818	35	15.0273	0.94818	36	27.5000	0.33619
37	39.5000	0.32584									

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 12
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY ; DAMPING = 0.03
 FIGURE NO. 112-B DIRECTION 2 AT ELEVATION 783.58 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 112			DEGREE OF FREEDOM = 2			NUMBER OF GRIDS = 38			DAMPING VALUE = 0.030		
1	0.9000	0.16933	2	1.0228	0.18704	3	1.0714	0.21477	4	1.1250	0.21494
5	1.2016	0.21494	6	1.2500	0.23171	7	1.2906	0.23171	8	1.3235	0.25992
9	1.3637	0.28844	10	1.5506	0.28844	11	1.6071	0.28951	12	1.7308	0.36225
13	1.8000	0.42431	14	1.8750	0.45202	15	1.9129	0.46113	16	1.9132	0.46119
17	2.1967	0.49536	18	2.2500	0.51419	19	2.2517	0.51478	20	2.3190	0.52411
21	2.3220	0.52437	22	2.3684	0.52581	23	2.5054	0.52581	24	2.6471	0.58513
25	3.0000	0.68685	26	3.4616	0.77531	27	3.7500	1.00538	28	4.0909	1.16820
29	5.0000	1.72943	30	5.3731	2.23355	31	6.5671	2.23355	32	6.6869	2.15348
33	8.0785	0.99004	34	10.6383	0.99004	35	11.2971	0.83311	36	15.0273	0.83311
37	27.5000	0.28479	38	39.5000	0.27776						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 13
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03
 FIGURE NO. 107-B DIRECTION 3 AT ELEVATION 905.75 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 107			DEGREE OF FREEDOM = 3			NUMBER OF GRIDS = 38			DAMPING VALUE = 0.030		
1	0.9000	0.26689	2	0.9375	0.28450	3	1.0228	0.30870	4	1.0714	0.35020
5	1.1842	0.37124	6	1.4062	0.50647	7	1.5000	0.61246	8	1.6071	0.66444
9	1.7308	0.88532	10	1.8000	0.99076	11	1.8750	1.07434	12	1.9129	1.08429
13	1.9695	1.08429	14	2.0454	1.22808	15	2.1429	1.29633	16	2.1967	1.32331
17	2.2517	1.33305	18	2.7521	1.33305	19	2.8344	1.29164	20	2.8948	1.23715
21	3.1226	0.99851	22	3.4375	0.99851	23	3.4857	0.99851	24	3.8000	1.39044
25	4.2000	2.14008	26	5.0000	3.80892	27	5.2443	3.80892	28	5.4711	4.26011
29	5.6890	5.00694	30	6.9532	5.00694	31	7.1521	4.64365	32	7.5497	3.89337
33	7.8572	3.71616	34	10.6383	1.89162	35	11.8535	1.40593	36	13.7500	1.10920
37	27.5000	0.74066	38	39.5000	0.71262						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 14
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03
 FIGURE NO. 108-B DIRECTION 3 AT ELEVATION 885.50 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR NODE= 108			DEGREE OF FREEDOM = 3			NUMBER OF GRIDS = 38			DAMPING VALUE = 0.030		
1	0.9000	0.26103	2	0.9375	0.27722	3	1.0228	0.29992	4	1.0714	0.33953
5	1.1842	0.35730	6	1.4062	0.48241	7	1.5000	0.57375	8	1.6071	0.62231
9	1.7308	0.81673	10	1.8000	0.90860	11	1.8750	0.97886	12	1.9129	0.99263
13	1.9697	0.99263	14	2.0454	1.11541	15	2.1429	1.17058	16	2.1967	1.18655
17	2.2517	1.19084	18	2.7521	1.19084	19	2.8344	1.15330	20	2.8948	1.10708
21	3.1105	0.91865	22	3.4978	0.91865	23	3.7500	1.25023	24	4.1400	1.87857
25	4.7000	2.75016	26	5.0000	3.23534	27	5.2879	3.23534	28	5.4711	3.51564
29	5.6890	4.10600	30	6.9532	4.10600	31	7.1521	3.79683	32	7.5497	3.17138
33	7.8572	3.00677	34	11.2820	1.34263	35	11.8535	1.34068	36	13.7500	0.97392
37	27.5000	0.62588	38	39.5000	0.60124						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B. SET NO. = 15
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03
 FIGURE NO. 109-B DIRECTION 3 AT ELEVATION 860.00 FEET NO. OF SPECTRA = 1

BROADENED SPECTRUM FOR MODE= 109		DEGREE OF FREEDOM =		NUMBER OF GRIDS = 40		DAMPING VALUE =	
FIGURE NO.	110-B	DIRECTION	3	3	1.0228	0.28886	0.030
1	0.9000	0.25366	2	0.9375	0.26805	3	0.32610
5	1.1842	0.33974	6	1.3637	0.43440	7	0.56925
9	1.7308	0.73037	10	1.8000	0.85866	11	0.87720
13	1.9701	0.87720	14	2.0454	0.97354	15	1.01434
17	2.6849	1.01434	18	2.7500	1.01225	16	1.9129
21	2.8948	0.94330	22	3.0861	0.81812	19	2.1967
25	4.8500	2.19021	26	5.1800	2.51307	20	2.8344
29	5.6890	2.97150	30	6.9532	2.97150	24	3.7500
33	7.8572	2.11345	34	8.4811	1.81676	28	5.4711
37	11.8535	1.25858	38	13.7500	0.80377	32	7.5497
						35	10.4165
						39	1.25858
						40	0.47037

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.		DEGREE OF FREEDOM =		NUMBER OF GRIDS = 38		DAMPING VALUE =	
FIGURE NO.	110-B	DIRECTION	3	3	1.0228	0.27693	0.030
1	0.9000	0.24571	2	0.9375	0.25816	3	0.31266
5	1.1842	0.32082	6	1.2500	0.34706	7	0.47244
9	1.6071	0.51203	10	1.7308	0.63727	11	0.75272
13	1.9708	0.75272	14	2.0454	0.82054	15	0.84149
17	2.7500	0.61932	18	2.7521	0.81864	19	0.76666
21	2.9786	0.70977	22	3.5396	0.70977	20	0.76666
25	5.6710	1.73420	26	5.6890	1.74802	24	1.73420
29	8.0079	1.15888	30	9.1666	1.15888	28	7.5497
33	9.6983	1.17013	34	11.8535	1.17013	32	9.5643
37	27.5000	0.35588	38	39.5000	0.32929	35	15.8273

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.		DEGREE OF FREEDOM =		NUMBER OF GRIDS = 27		DAMPING VALUE =	
FIGURE NO.	111-B	DIRECTION	3	3	1.0228	0.26631	0.030
1	0.9000	0.23863	2	0.9375	0.24935	3	0.30411
5	1.2500	0.32539	6	1.3235	0.34767	7	0.46105
9	1.6667	0.51090	10	1.7308	0.55436	11	0.64182
13	2.0454	0.68423	14	2.1429	0.68936	12	1.9129
17	3.6019	0.61492	18	3.7500	0.71407	16	2.8745
21	5.5000	1.04895	22	9.6983	1.09143	20	4.5000
25	15.8273	0.54595	26	27.5000	0.23124	24	13.7500

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.		DEGREE OF FREEDOM =		NUMBER OF GRIDS = 34		DAMPING VALUE =	
FIGURE NO.	112-B	DIRECTION	3	3	1.0228	0.25709	0.030
1	0.9000	0.23268	2	0.9375	0.24173	3	0.29717
5	1.2500	0.30592	6	1.3235	0.32626	7	0.38223
9	1.6071	0.41380	10	1.6667	0.45855	11	0.55962
13	2.2934	0.55917	14	2.5000	0.55917	15	2.2916
17	2.6930	0.51562	18	2.8125	0.58199	16	2.6755
21	3.7108	0.56766	22	3.7500	0.58296	20	3.6666
25	5.5000	0.62418	26	8.7041	0.77191	24	5.0000
29	9.6983	1.02951	30	11.8535	0.77191	28	9.5643
33	27.5000	0.17782	34	39.5000	0.15374	32	15.8273