

CYGNA		11/6
JOB NO :	84002	
DATE LOGGED:	6/7/86	
LOG NO.:	1116	(6/7)
FILE:	11.1.1 Tech. Files	
CROSS REF. FILE	11.1 Tech. Files Log	

FRB-8R

11/6  
6/7

# 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.

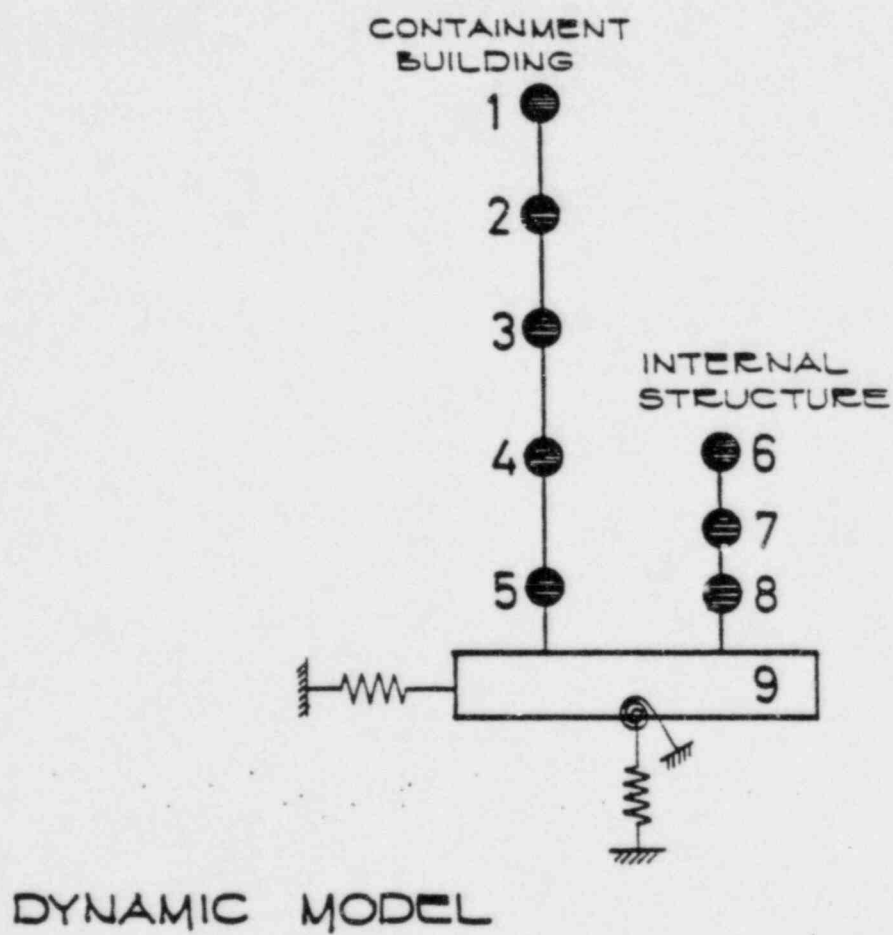


**TUSI**  
REACTOR BUILDING

SCALE - 1/8" = 5'0"

FILE NO 2323-A





# TUSI

## REACTOR BUILDING

**Gibbs & Hill, Inc.**  
ENGINEERS, DESIGNERS, CONSTRUCTORS  
SINCE 1925

SCALE -

SKETCH 3

[illegible]



## SUMMARY OF REFINED FLOOR RESPONSE SPECTRA

FIGURE NO.	FLOOR ELEVATION	DAMPING %	EARTHQUAKE	TYPE OF MOTION
125-B	905.75 FT.	1	1/2 SSE	TRANSL. & ROT.
126-B	885.50 FT.	1	1/2 SSE	TRANSL. & ROT.
127-B	860.00 FT.	1	1/2 SSE	TRANSL. & ROT.
128-B	832.50 FT.	1	1/2 SSE	TRANSL. & ROT.
129-B	808.00 FT.	1	1/2 SSE	TRANSL. & ROT.
130-B	783.58 FT.	1	1/2 SSE	TRANSL. & ROT.
131-B	905.75 FT.	2	1/2 SSE	TRANSL. & ROT.
132-B	885.50 FT.	2	1/2 SSE	TRANSL. & ROT.
133-B	860.00 FT.	2	1/2 SSE	TRANSL. & ROT.
134-B	832.50 FT.	2	1/2 SSE	TRANSL. & ROT.
135-B	808.00 FT.	2	1/2 SSE	TRANSL. & ROT.
136-B	783.58 FT.	2	1/2 SSE	TRANSL. & ROT.

TUSI

R.B. Internal Structure

Gibbs &amp; Hill Inc.

SEISMIC DESIGN CONSULTANTS

San Francisco

2822

SEAL -

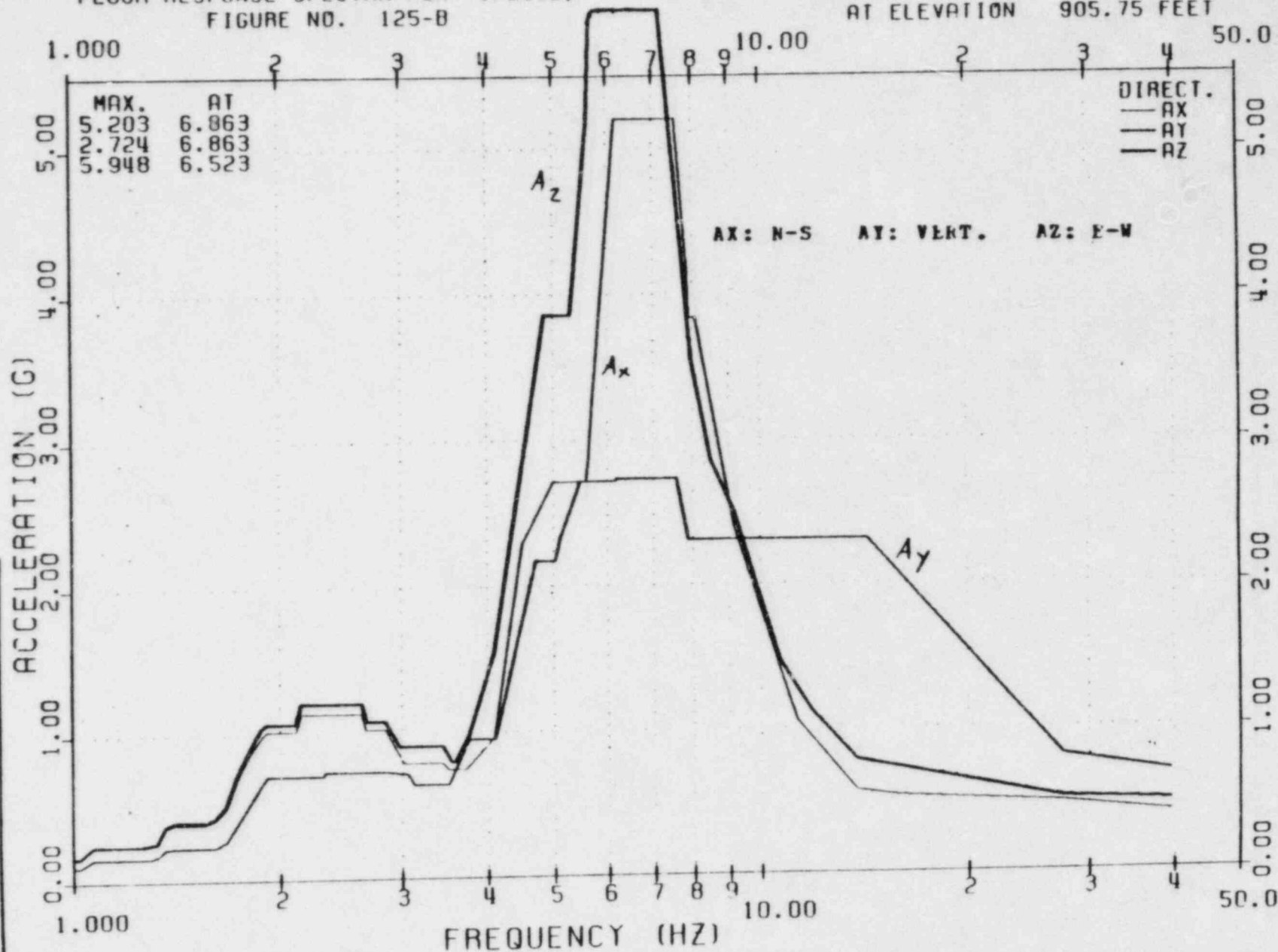
TABLE 2



# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

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

DAMPING = 0.01  
AT ELEVATION 905.75 FEET



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

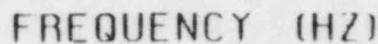
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JOB NO. 2323

FIGURE-125 B



885.50 FEET



AX: N-S AY: VERT. AZ: E-W

GIBBS & HILL, INC.

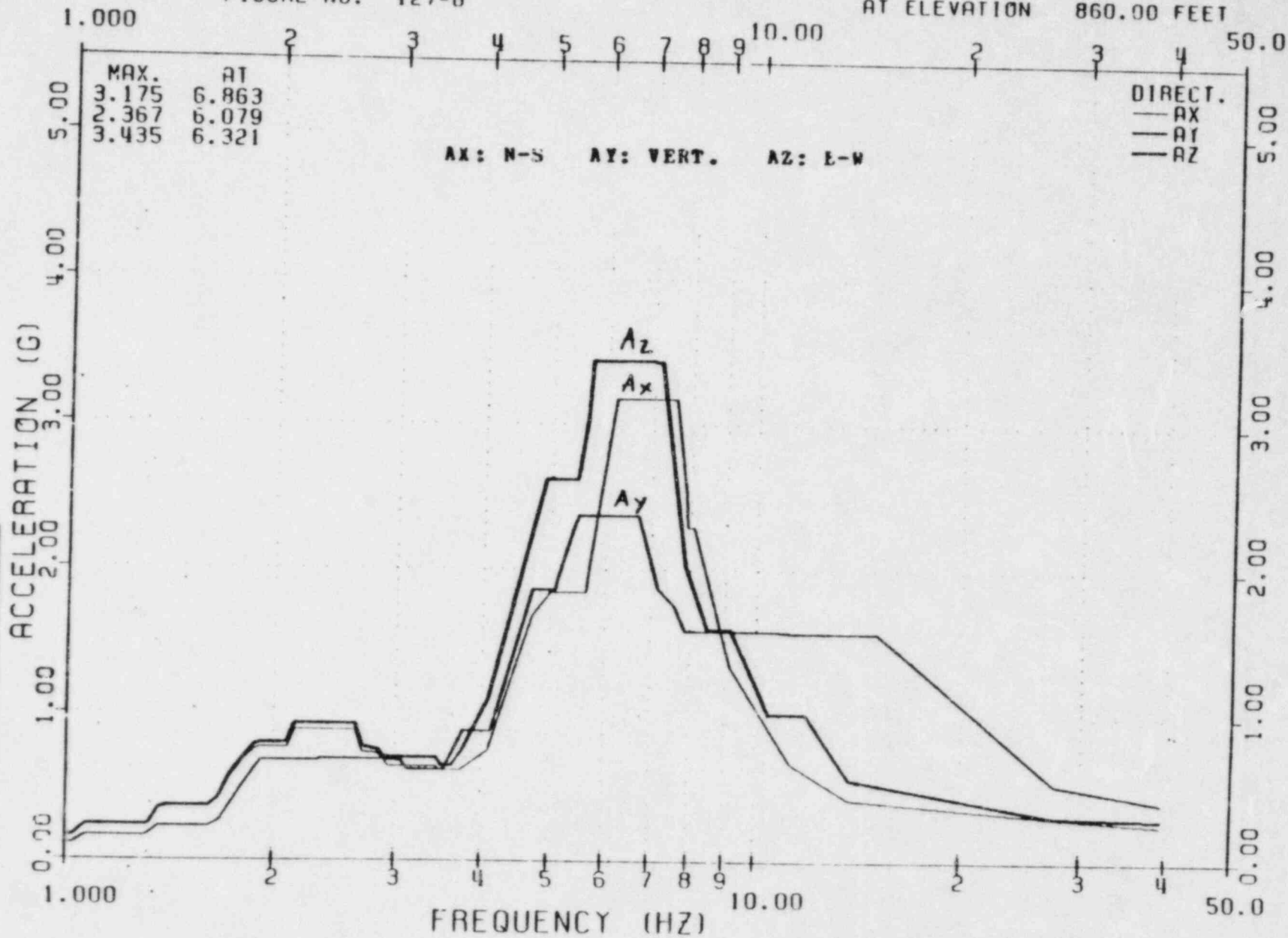
ERIC M. EMMERS, D.S. JAMES T. MURPHY, CHAIRS

2523

FIGURE-126 A

# 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



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSULTANTS

FIGURE-127B

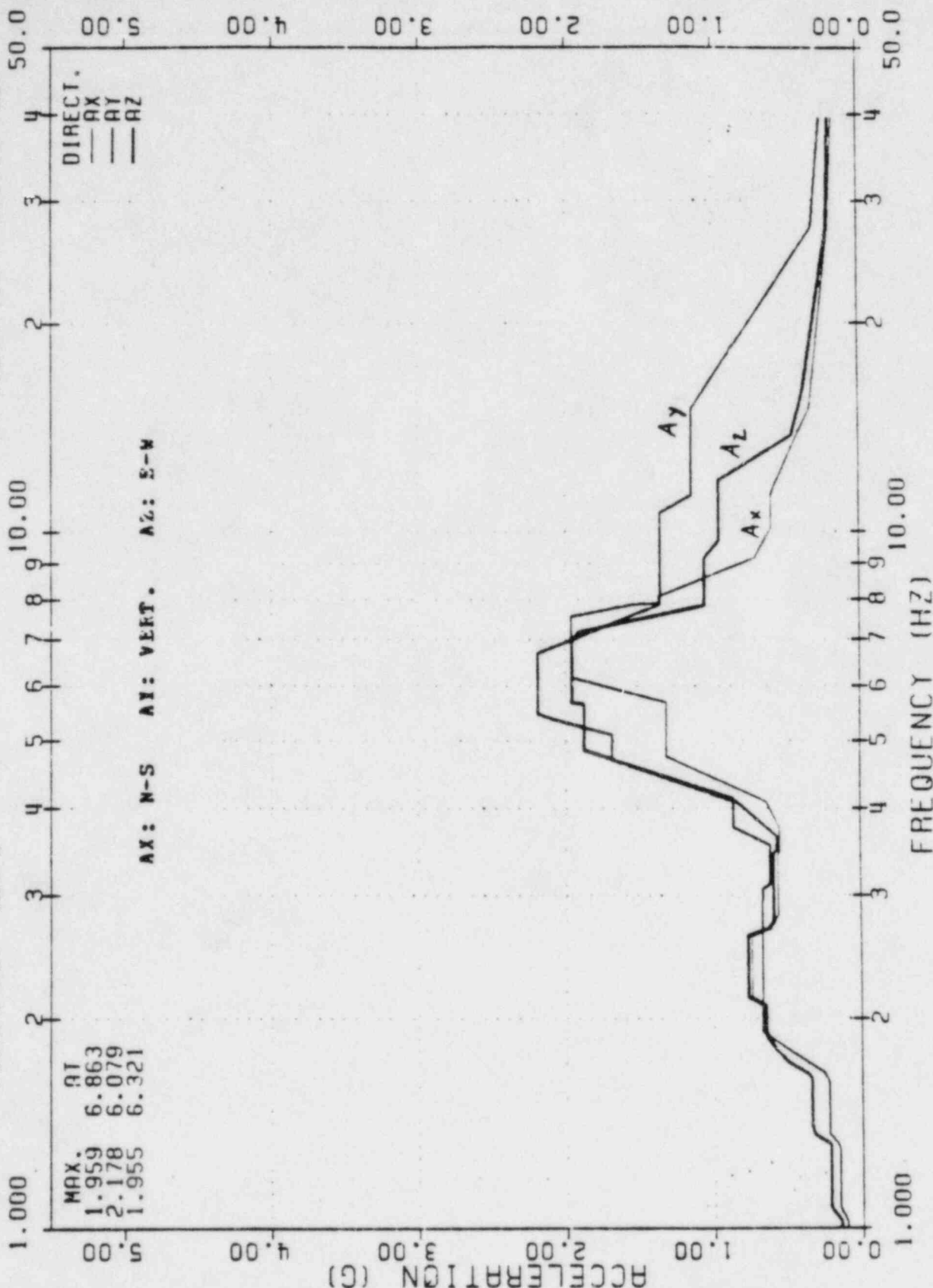
# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR 1/2SSE;

FIGURE NO. 128-B

CAMPING = 0.01

AT ELEVATION 832.50 FEET



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

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JOB NO. 2323

FIGURE-128 B

0 01/87 ADP WT

ISSUE DATE PLT. CHD. 100.

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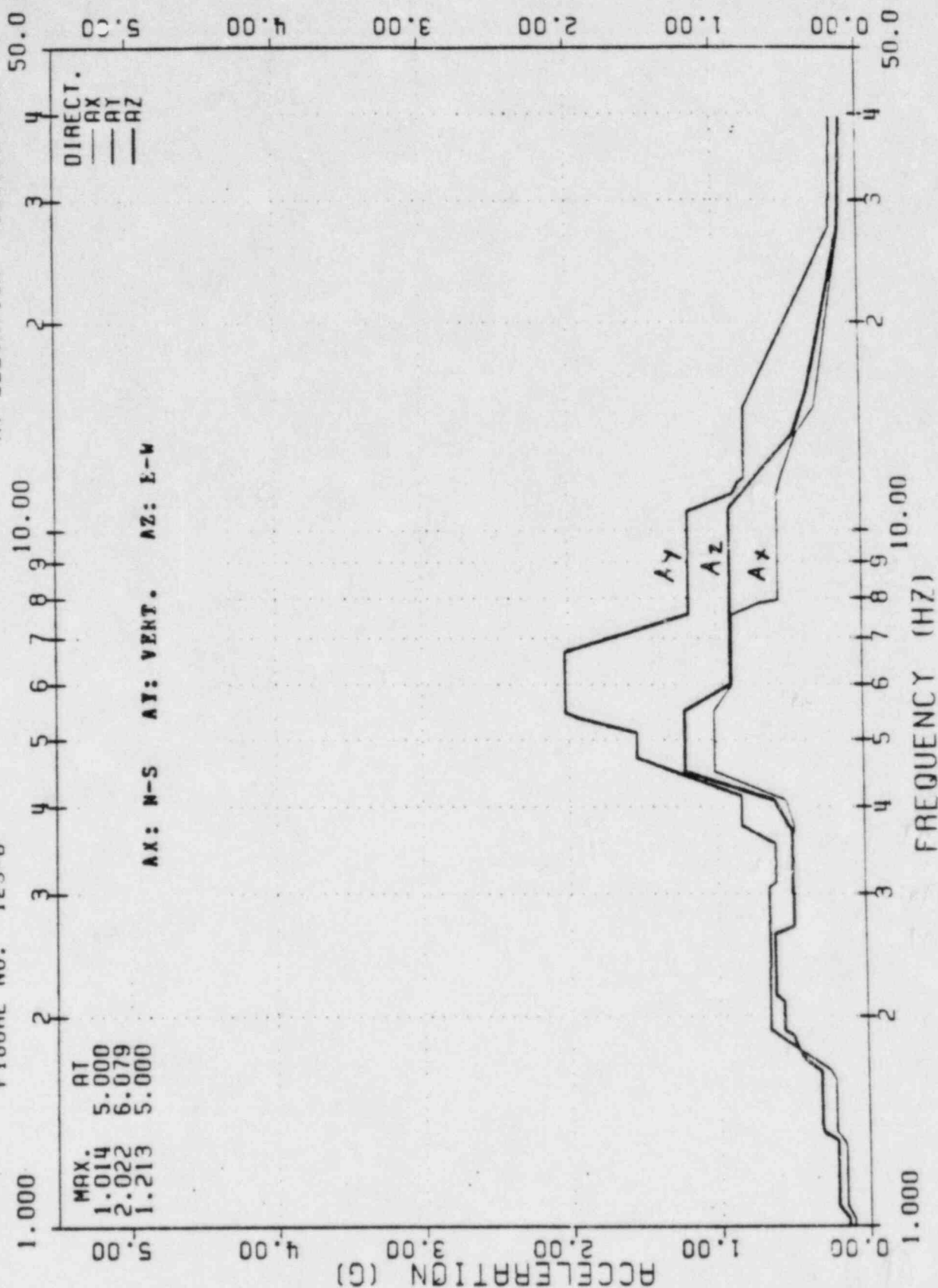
ISSUED FOR

# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR 1/2SSE:

DAMPING = 0.01  
AT ELEVATION 808.00 FEET

FIGURE NO. 129-B



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JDS NO. 2323

FIGURE-129 5

0-01/07 RDP WT

ISSUE NO.	DATE	PLTN.	CHRGD.	BOD	LOA
1	10/1/50	100	100	100	100
2	10/1/50	100	100	100	100
3	10/1/50	100	100	100	100
4	10/1/50	100	100	100	100
5	10/1/50	100	100	100	100
6	10/1/50	100	100	100	100
7	10/1/50	100	100	100	100
8	10/1/50	100	100	100	100
9	10/1/50	100	100	100	100
10	10/1/50	100	100	100	100
11	10/1/50	100	100	100	100
12	10/1/50	100	100	100	100
13	10/1/50	100	100	100	100
14	10/1/50	100	100	100	100
15	10/1/50	100	100	100	100
16	10/1/50	100	100	100	100
17	10/1/50	100	100	100	100
18	10/1/50	100	100	100	100
19	10/1/50	100	100	100	100
20	10/1/50	100	100	100	100
21	10/1/50	100	100	100	100
22	10/1/50	100	100	100	100
23	10/1/50	100	100	100	100
24	10/1/50	100	100	100	100
25	10/1/50	100	100	100	100
26	10/1/50	100	100	100	100
27	10/1/50	100	100	100	100
28	10/1/50	100	100	100	100
29	10/1/50	100	100	100	100
30	10/1/50	100	100	100	100
31	10/1/50	100	100	100	100
32	10/1/50	100	100	100	100
33	10/1/50	100	100	100	100
34	10/1/50	100	100	100	100
35	10/1/50	100	100	100	100
36	10/1/50	100	100	100	100
37	10/1/50	100	100	100	100
38	10/1/50	100	100	100	100
39	10/1/50	100	100	100	100
40	10/1/50	100	100	100	100
41	10/1/50	100	100	100	100
42	10/1/50	100	100	100	100
43	10/1/50	100	100	100	100
44	10/1/50	100	100	100	100
45	10/1/50	100	100	100	100
46	10/1/50	100	100	100	100
47	10/1/50	100	100	100	100
48	10/1/50	100	100	100	100
49	10/1/50	100	100	100	100
50	10/1/50	100	100	100	100
51	10/1/50	100	100	100	100
52	10/1/50	100	100	100	100
53	10/1/50	100	100	100	100
54	10/1/50	100	100	100	100
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56	10/1/50	100	100	100	100
57	10/1/50	100	100	100	100
58	10/1/50	100	100	100	100
59	10/1/50	100	100	100	100
60	10/1/50	100	100	100	100
61	10/1/50	100	100	100	100
62	10/1/50	100	100	100	100
63	10/1/50	100	100	100	100

APPROVALS

ISSUED FROM

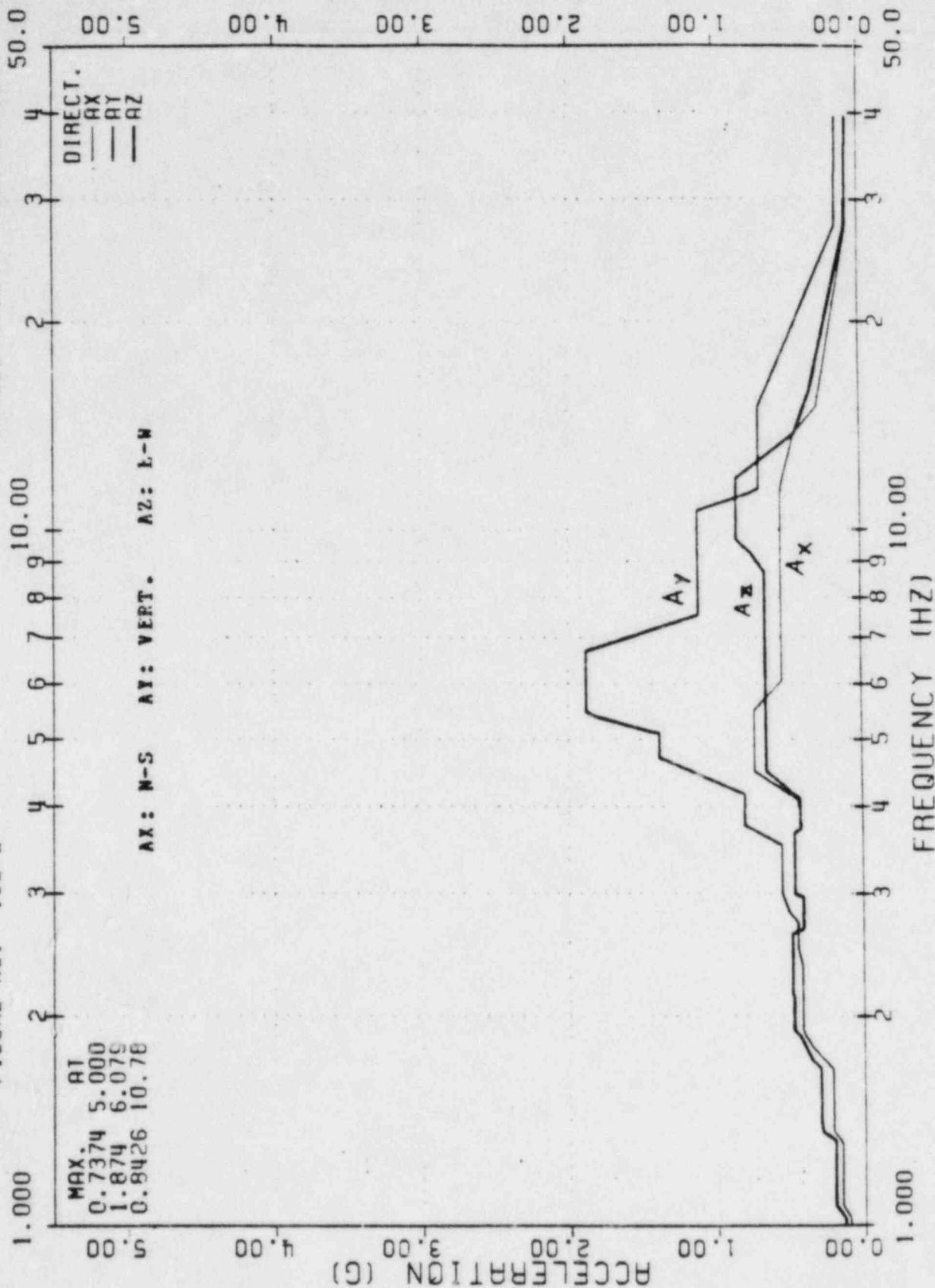
# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

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

FIGURE-130 B

JOB NO. 2323

0 01/07 ROP (4T)

ISSUE NO. DATE PLTD. CHRG. LOG

WORK. STRUCT. MECH. PLSE. DES. & ANAL. EXP. P.B.

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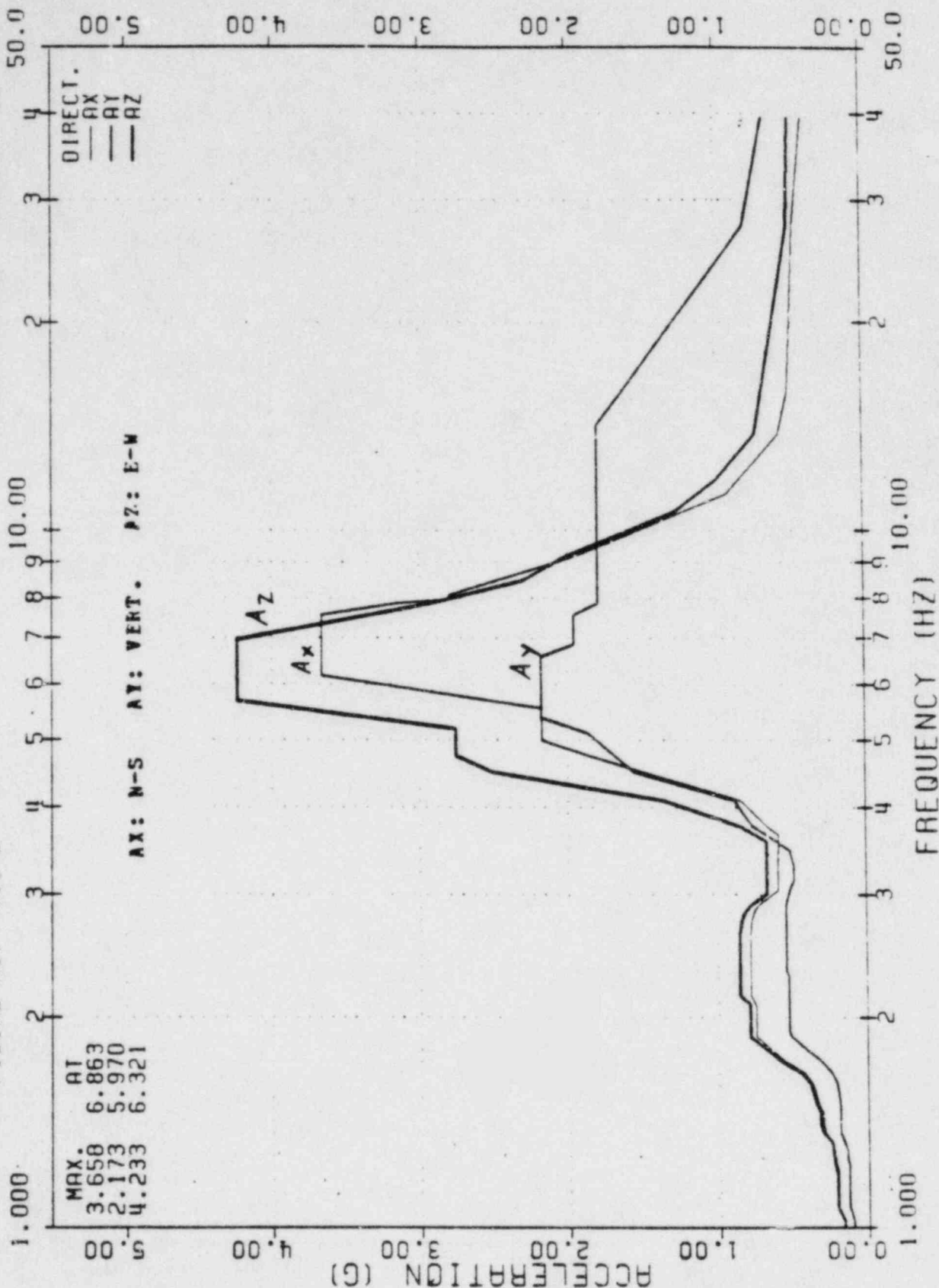
# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR 1/25SE;

FIGURE NO. 131-B

DAMPING = 0.02

AT ELEVATION 905.75 FEET



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2323

FIGURE-131 B

0 01/07 ADP WT

ISSUE NO. DATE PLTD. CHNG. LDR

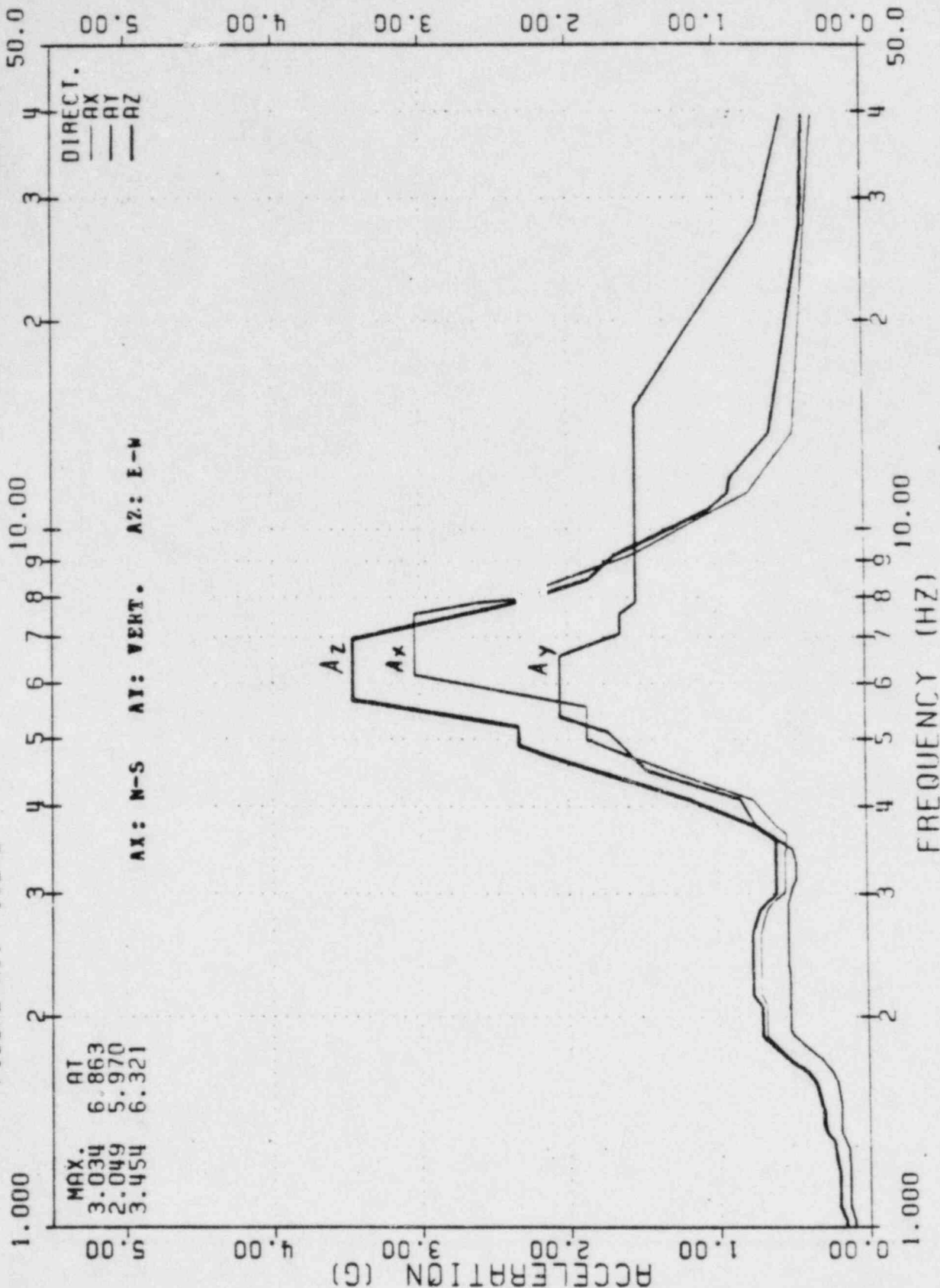
APPROVALS

ISSUED FOR

# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

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

DAMPING = 0.02  
AT ELEVATION 245.50 FEET



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

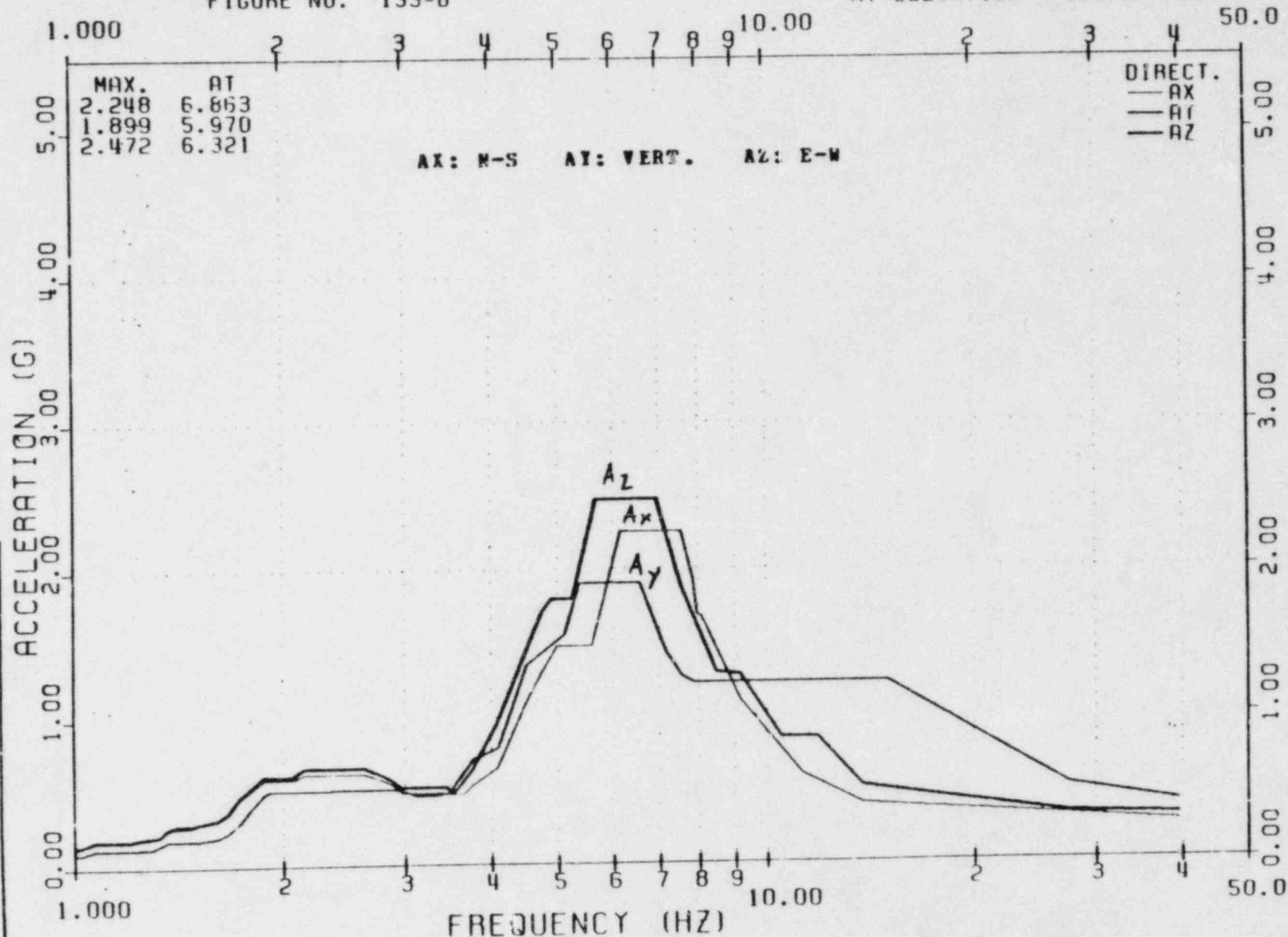
JOB NO. 2323

FIGURE-132 B

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.  
 FLOOR RESPONSE SPECTRA FOR 1/2SSE;  
 FIGURE NO. 133-B

DAMPING = 0.02  
 AT ELEVATION

860.00 FEET



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

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ENGINEERS, DESIGNERS, CONSTRUCTORS

NEW YORK

JAN. NO. 2323

FIGURE-133B

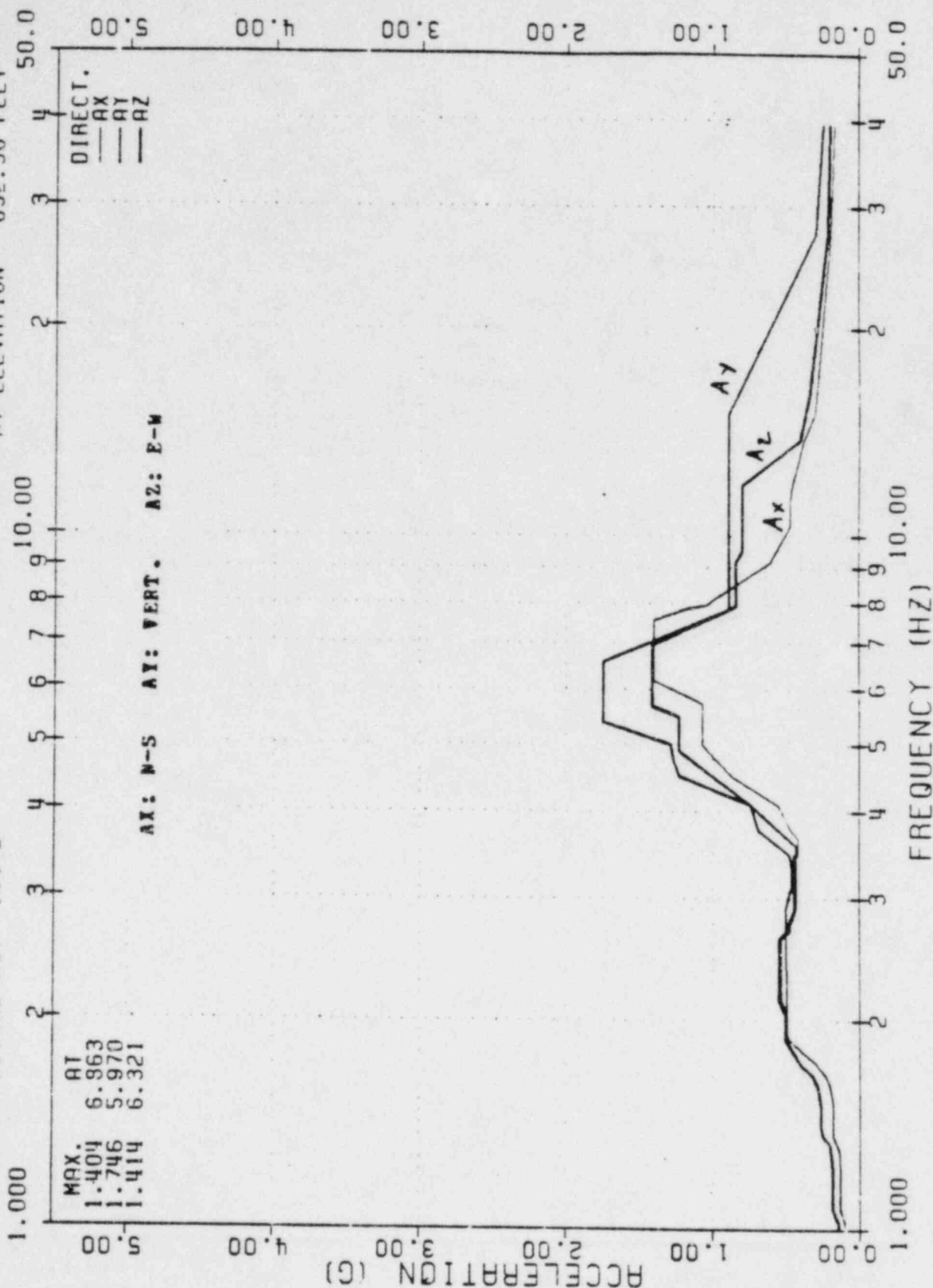
# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR 1/25SE;

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

JOB NO. 2323

FIGURE-134 B

DATE P.L.D. CHNO. FOR

ISSUE NO.

DATE P.L.D. CHNO. FOR

APPROVALS

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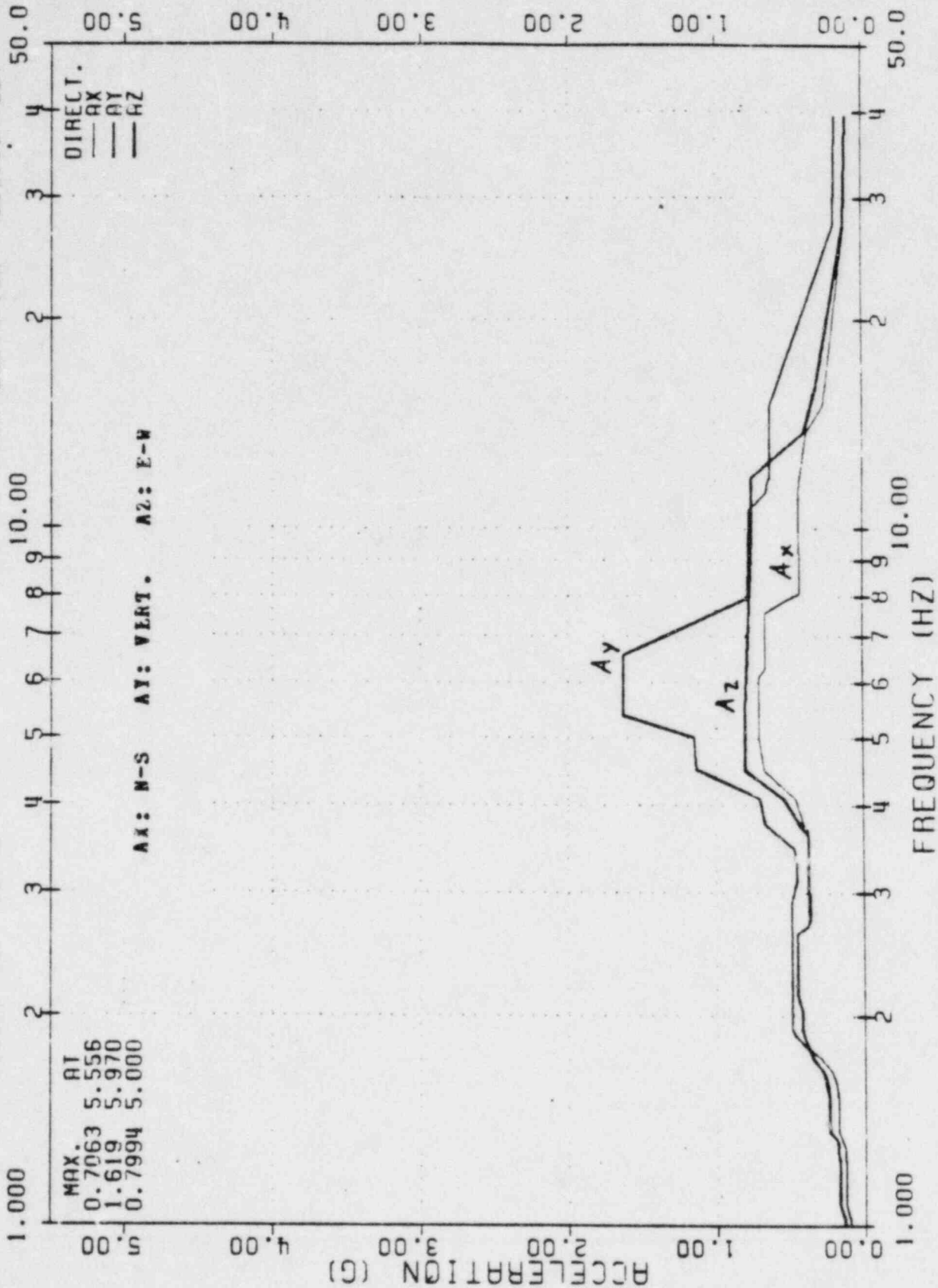
# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

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

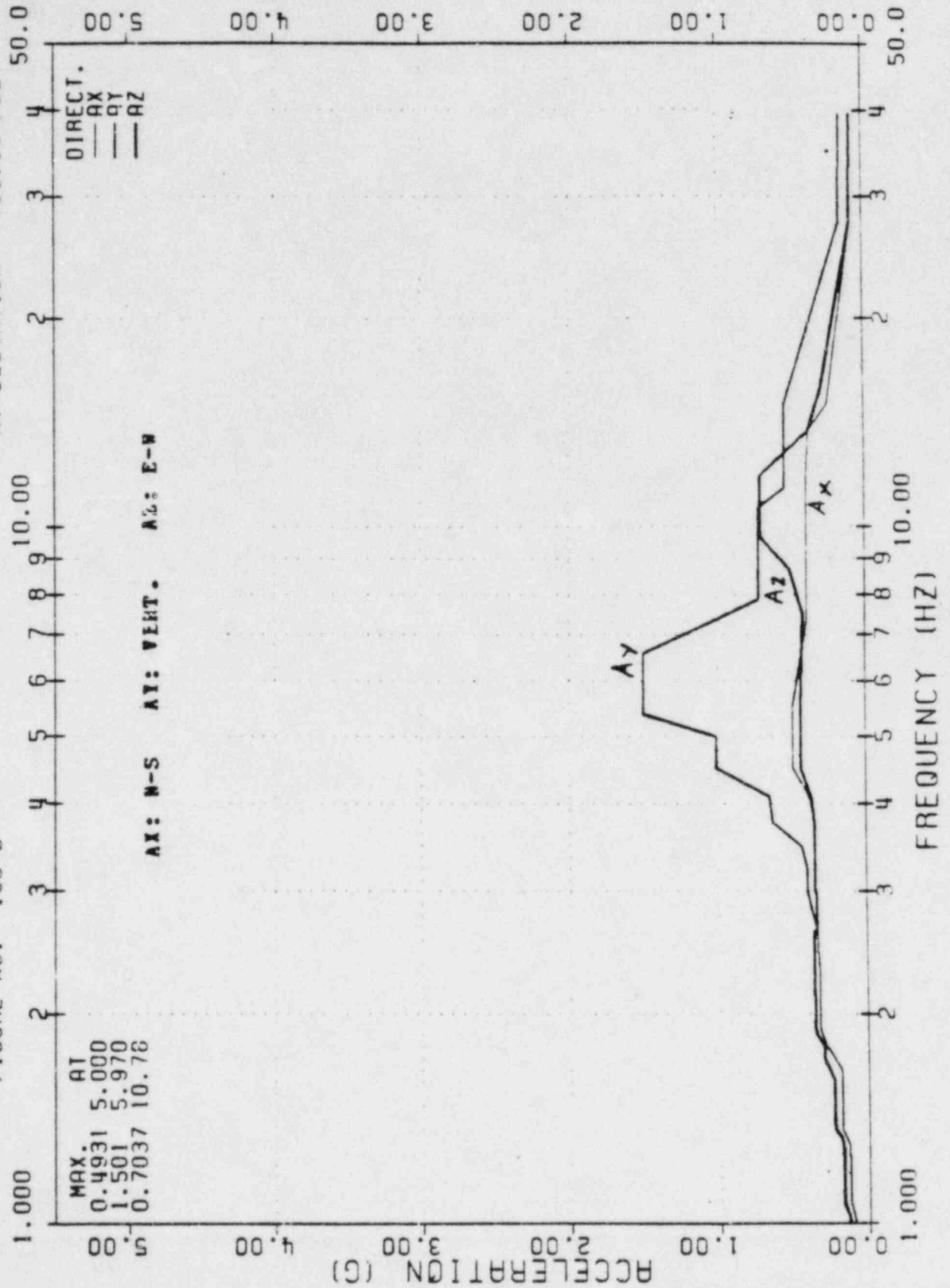
NEW YORK

ISS. NO. 2323

FIGURE-135 B



TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.  
 FLOOR RESPONSE SPECTRA FOR 1/2SSE;  
 DAMPING = 0.02  
 AT ELEVATION 783.58 FEET  
 FIGURE NO. 136-B



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO. 2323

FIGURE-136 B

0 01 27 RDP WT

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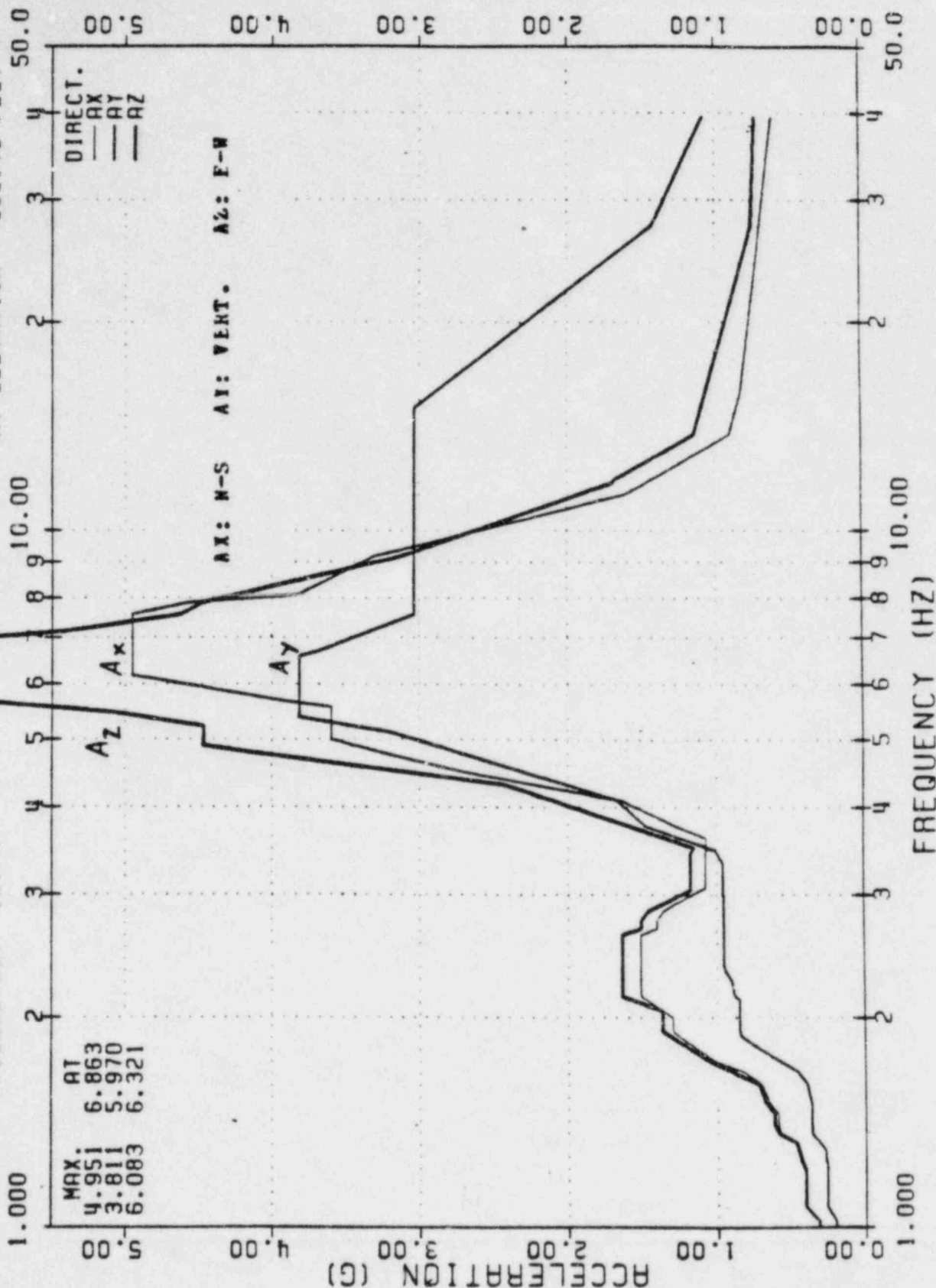
GRAPH, STREET, HATCH, ELEC. AND S. BULL. CIV. P. H.

APPROVED

ISSUED FOR

# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

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



TUSI-A.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONTRACTORS

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FIGURE-101 B

0 01/63 ADP 6WT

ISSUE NO. DATE PLTS. CHG. 101

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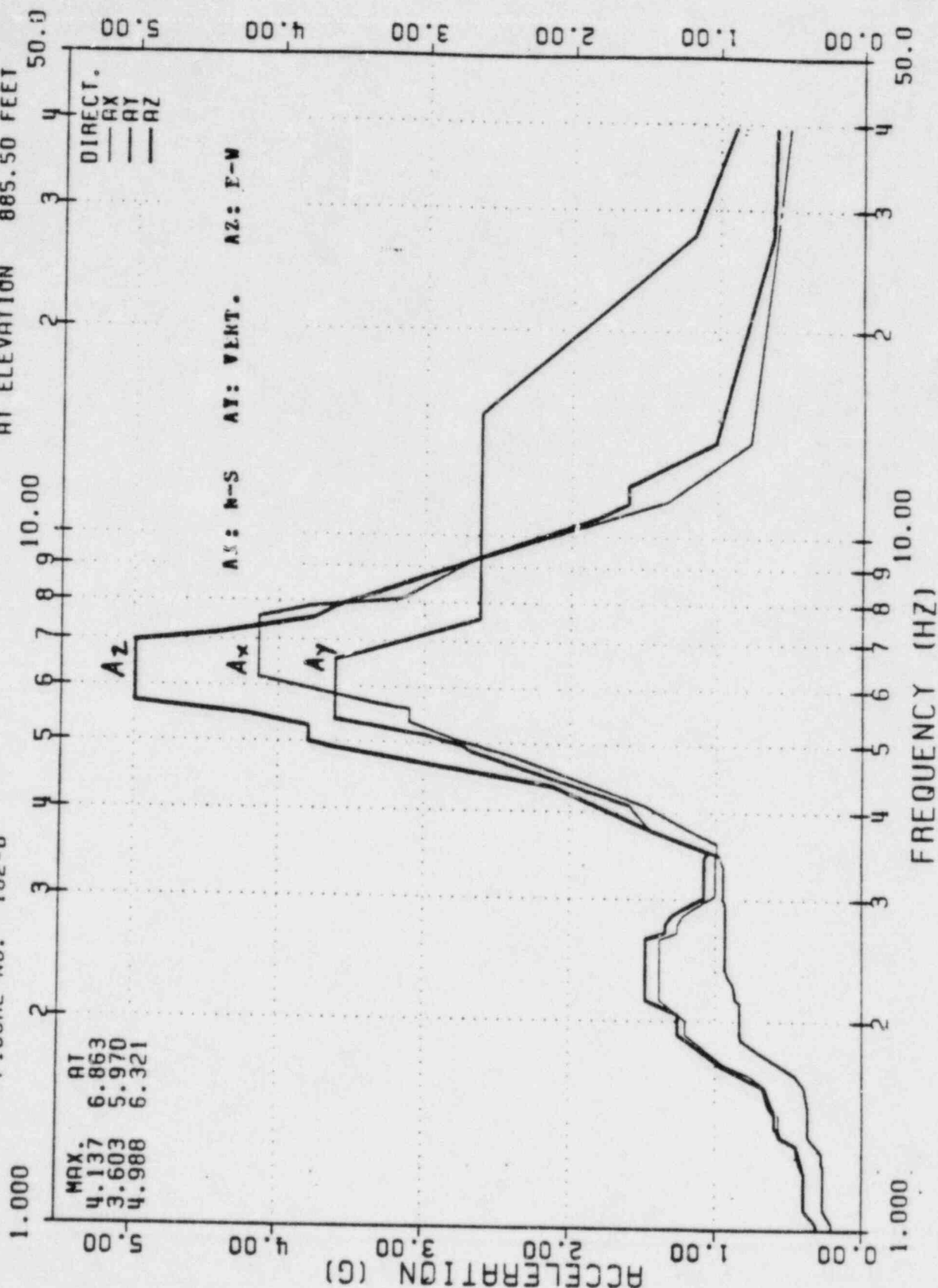
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# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

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 & HILL, INC.

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JOB NO. 2323

FIGURE-102 B

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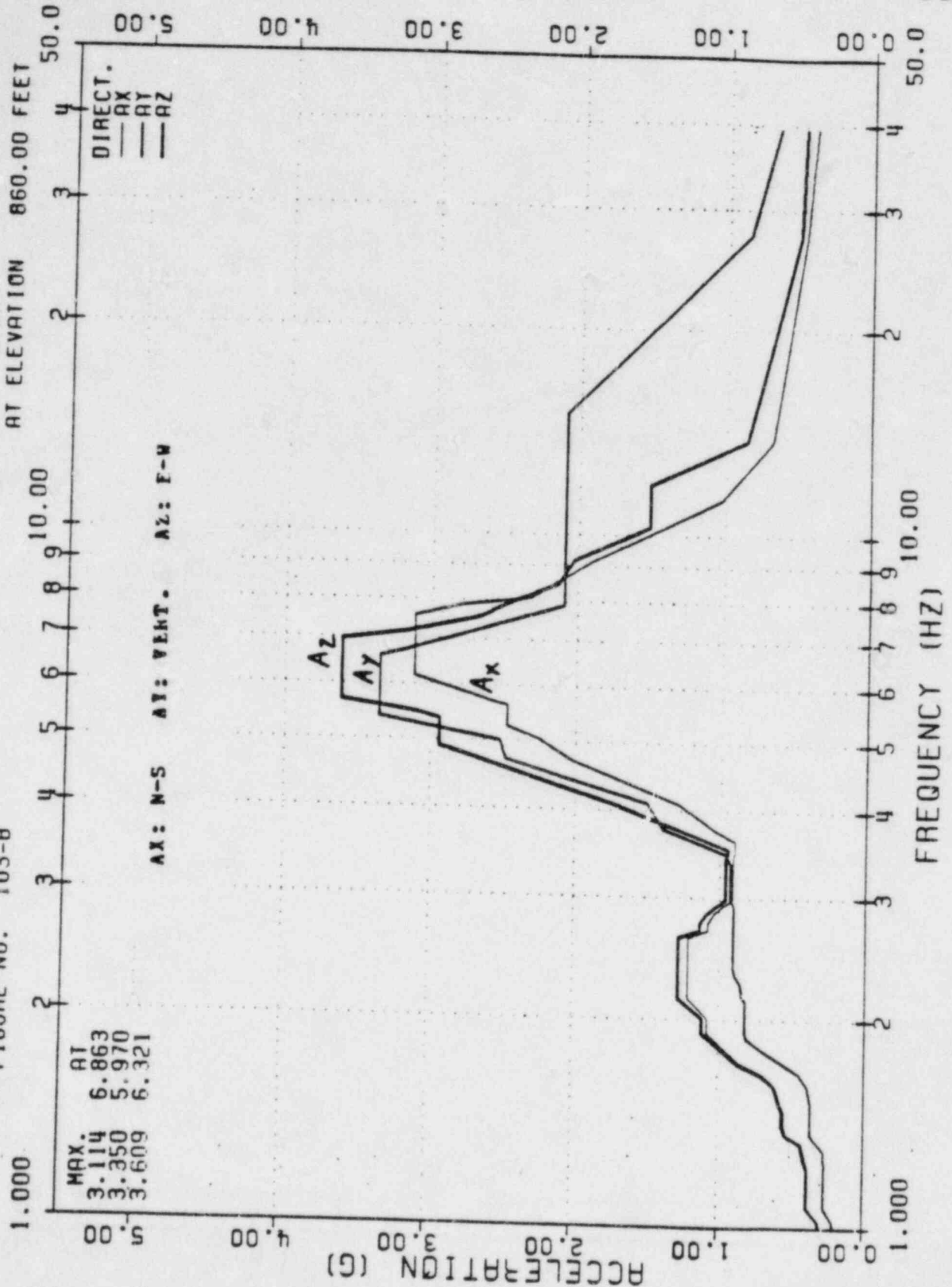
ISSUED FOR

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSE;  
FIGURE NO. 103-B

DAMPING = 0.02

AT ELEVATION 860.00 FEET



TUSI-R.B. INTERNAL STR.	
REFINED RESPONSE SPECTRA	
GIBBS & HILL, INC.	
ENGINEERS, DESIGNERS, CONSTRUCTORS	
REV. 1001	
JOB NO. 2323	FIGURE - 103 B

ISSUE NO.	DATE	PLT'D	CHK'D	BY	DATE
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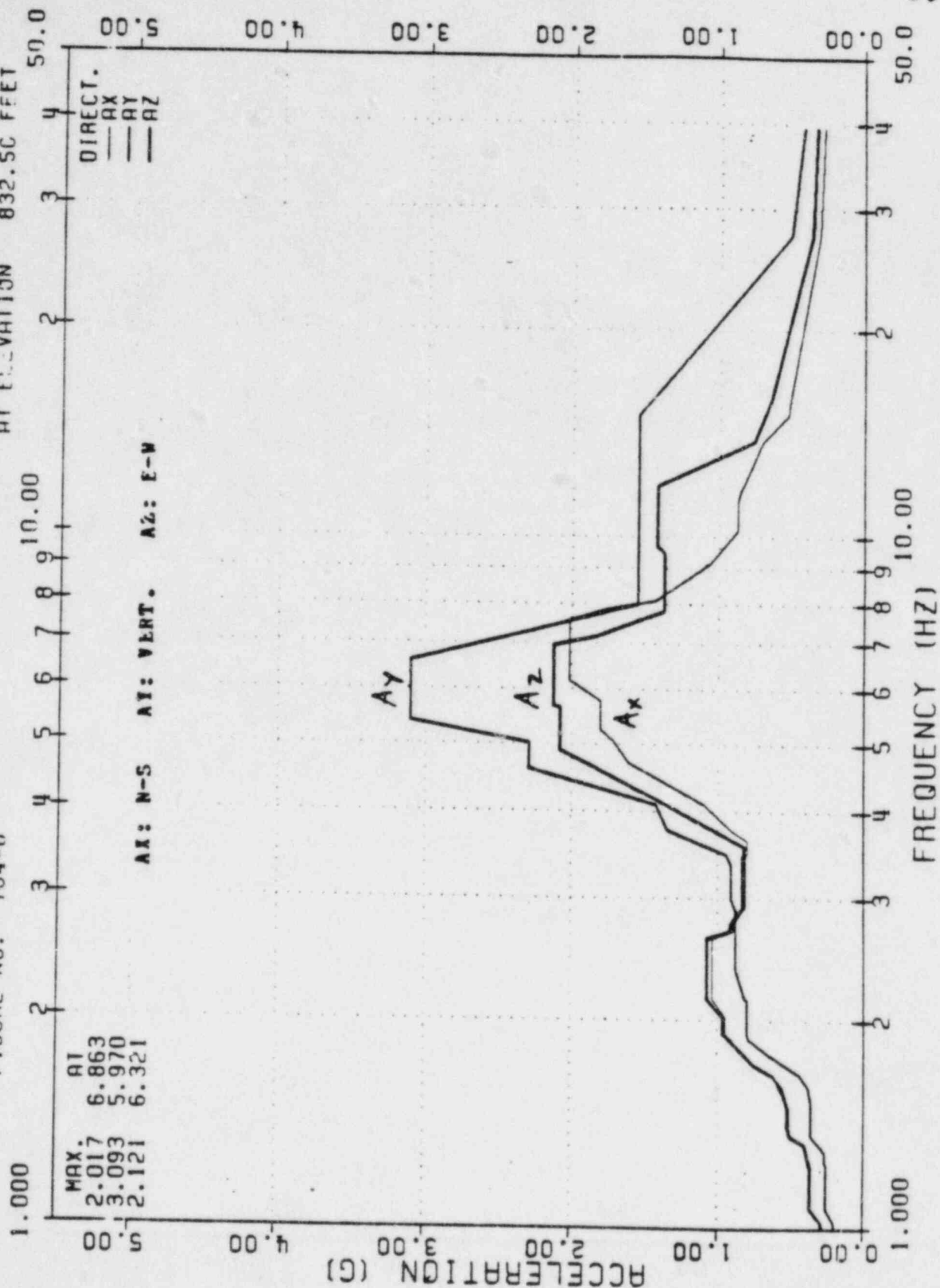


# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSE:  
FIGURE NO. 104-B

DAMPING = 0.02

AT ELEVATION 832.50 FEET



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.  
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FIGURE-104 B

0 81 87 107

ISSUE NO. 001 PLT. 0100-100

AREA, STRUCTURE, ELEV. 832.50 FEET, P.A.

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ISSUED FOR



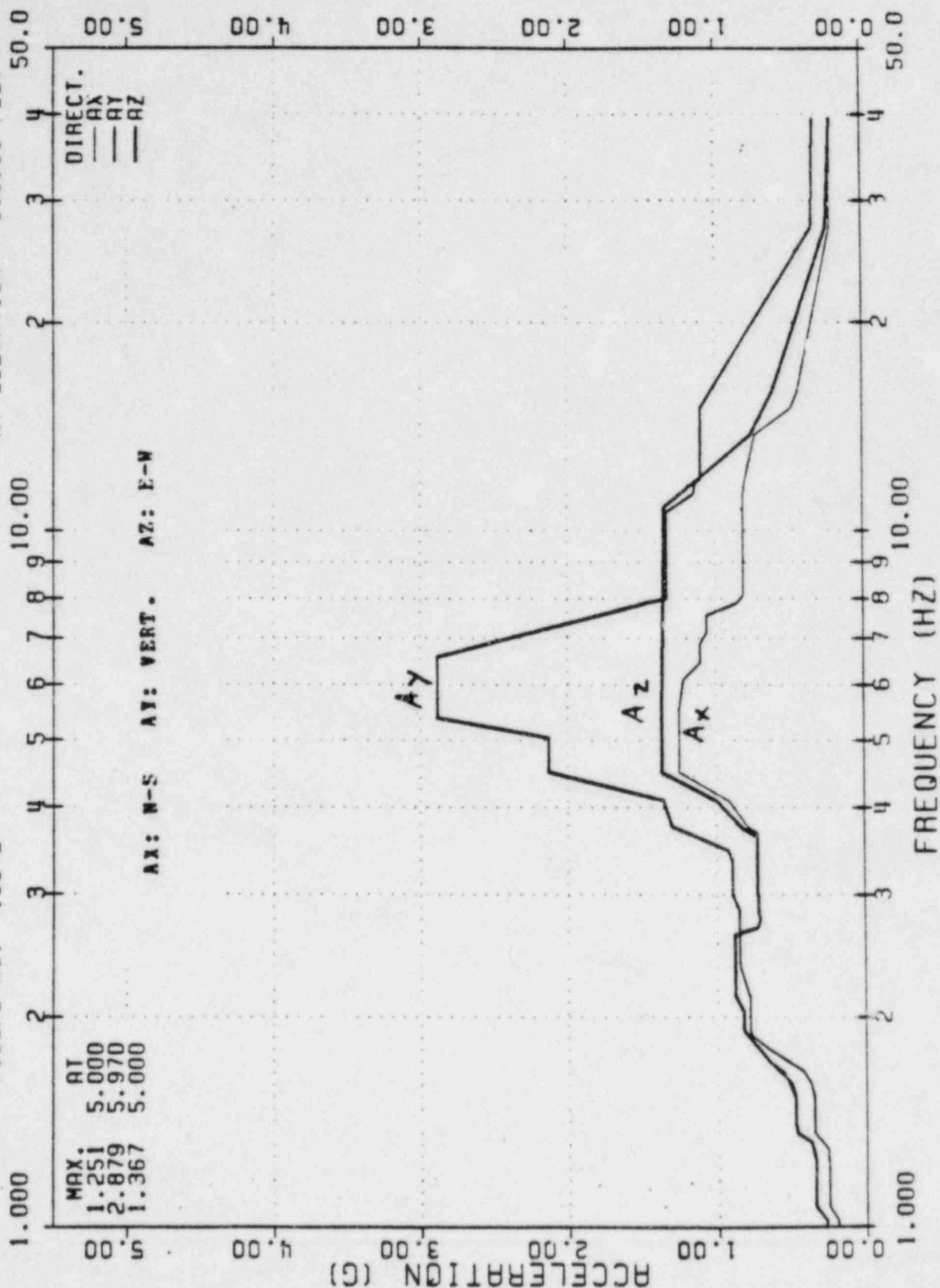
## TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

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 & MILL, INC.

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SINCE 1946

JOB NO. 2323

FIGURE- 105 (c)

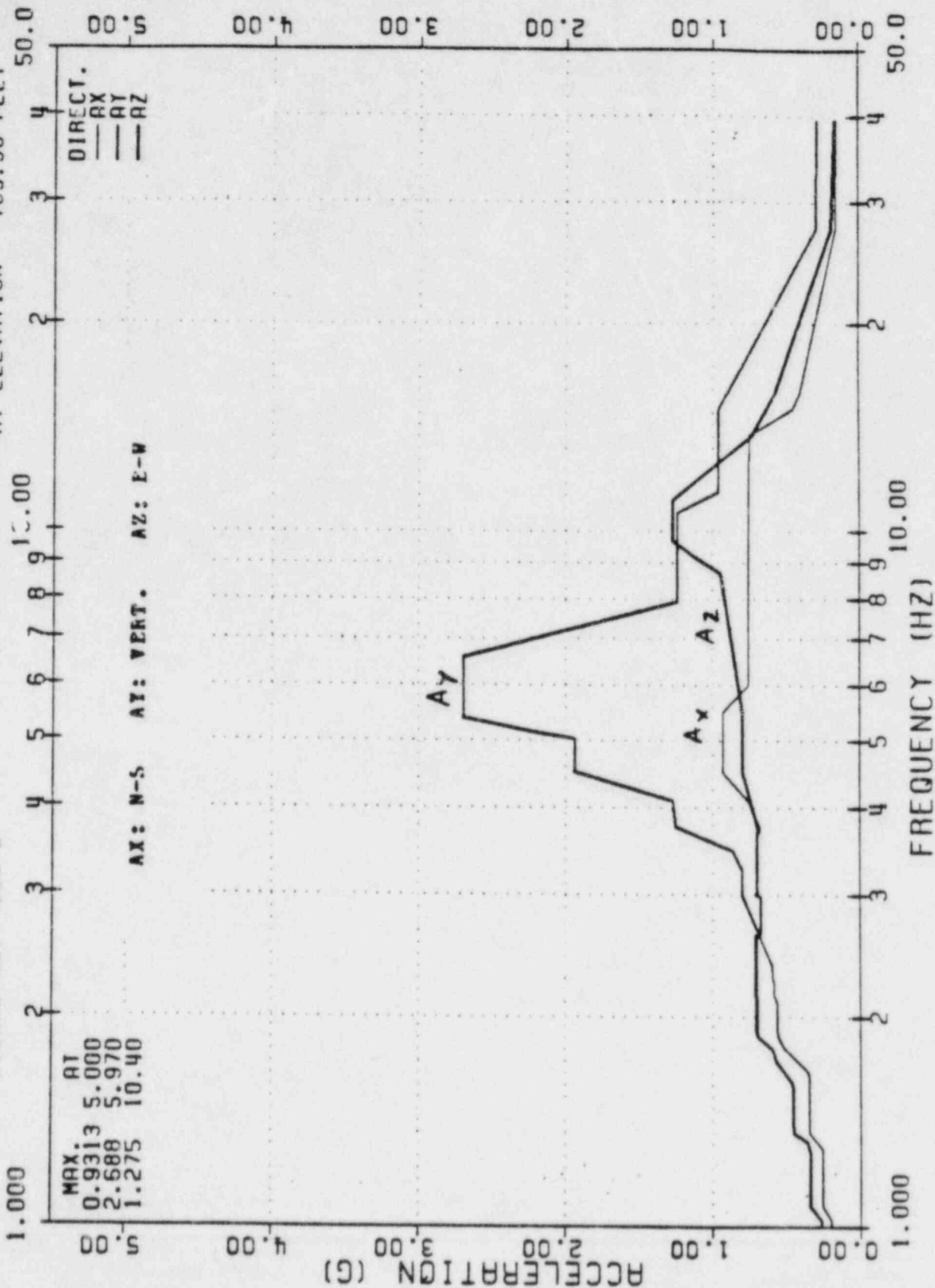
# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSE:

FIGURE NO. 106-B

DAMPING = 0.02

AT ELEVATION 783.58 FEET



MAX. AT  
0.9313 5.000  
2.688 5.970  
1.275 10.40

AX: N-S AY: VERT. AZ: E-W

TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.  
ENGINEERS, DESIGNERS, CONSTRUCTORS  
NEW YORK

JOB NO. 2323

FIGURE-106 B

DATE PLT'D, CHD, COR.

ISSUE NO.

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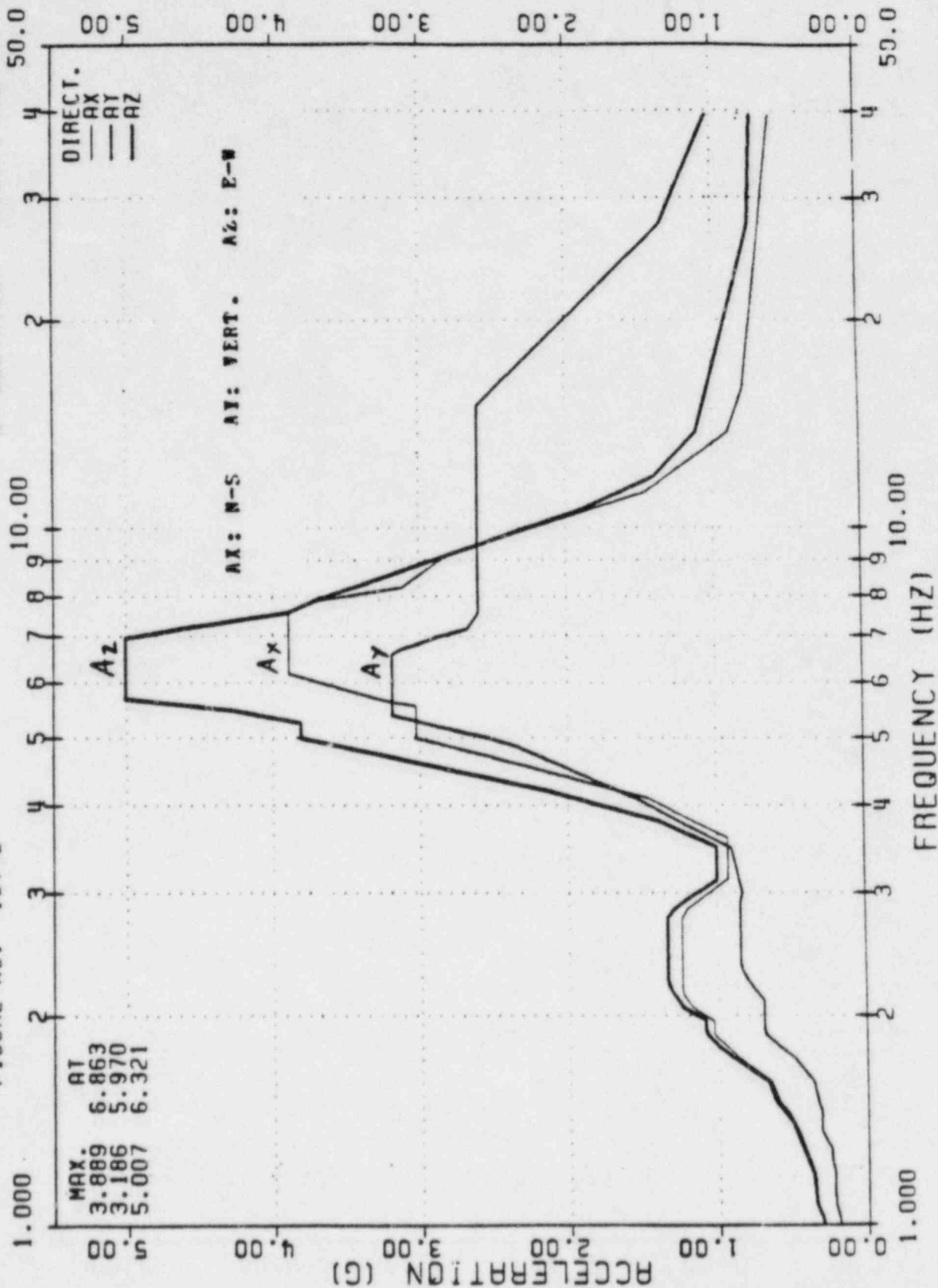
ISSUED FOR

# 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, CONSTRUCTORS

FIGURE-107 B

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ISSUE NO. 2523

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JOB NO. 2523

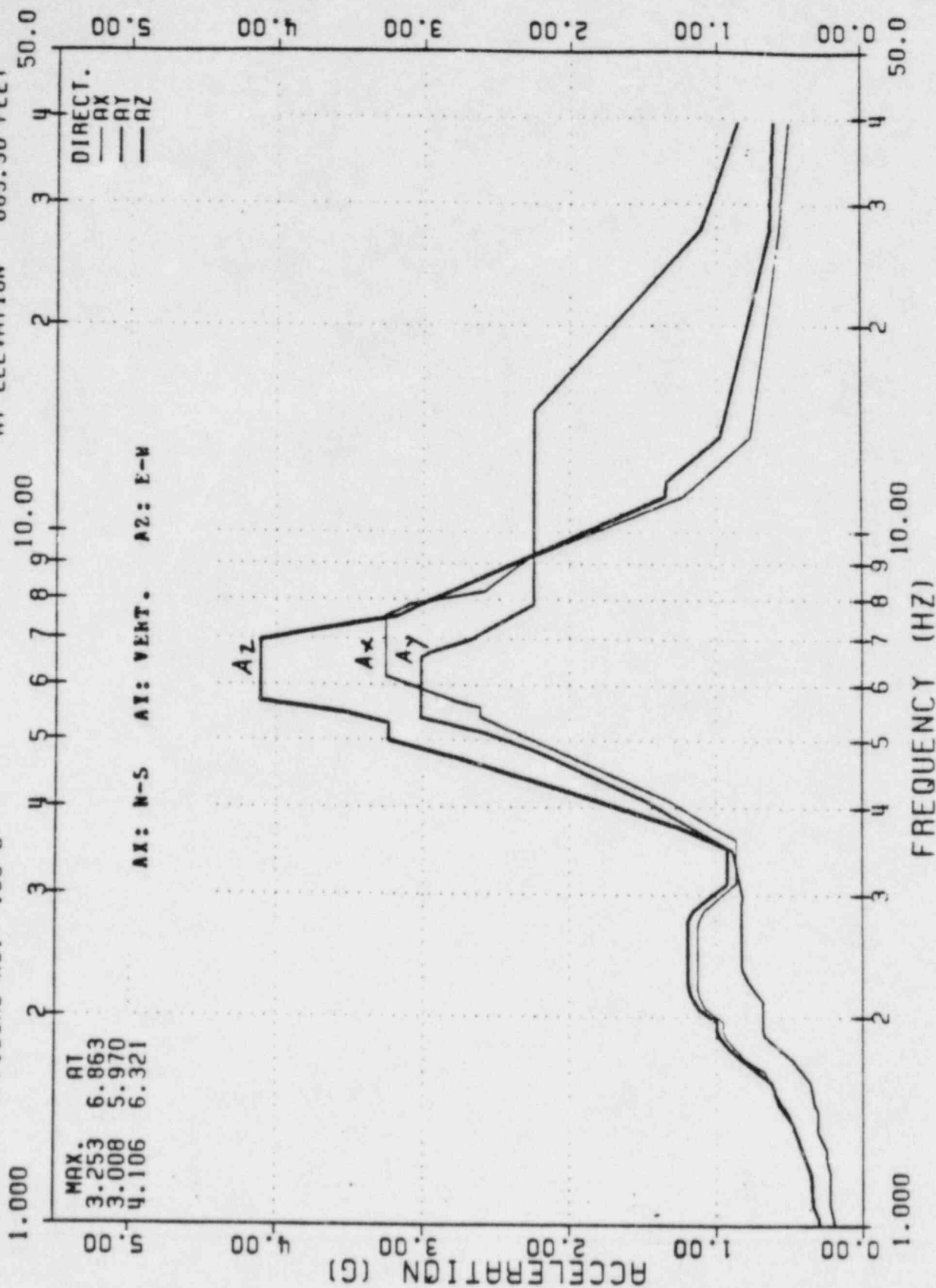
# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSE:

FIGURE NO. 108-B

DAMPING = 0.03

AT ELEVATION 885.50 FEET



TUSI-A.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & MILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS  
 600 1000

JOB NO. 2323

FIGURE-108 B

0 01/27 ADP 9/T

ISSUE NO. DATE PLT.C NO. 800.

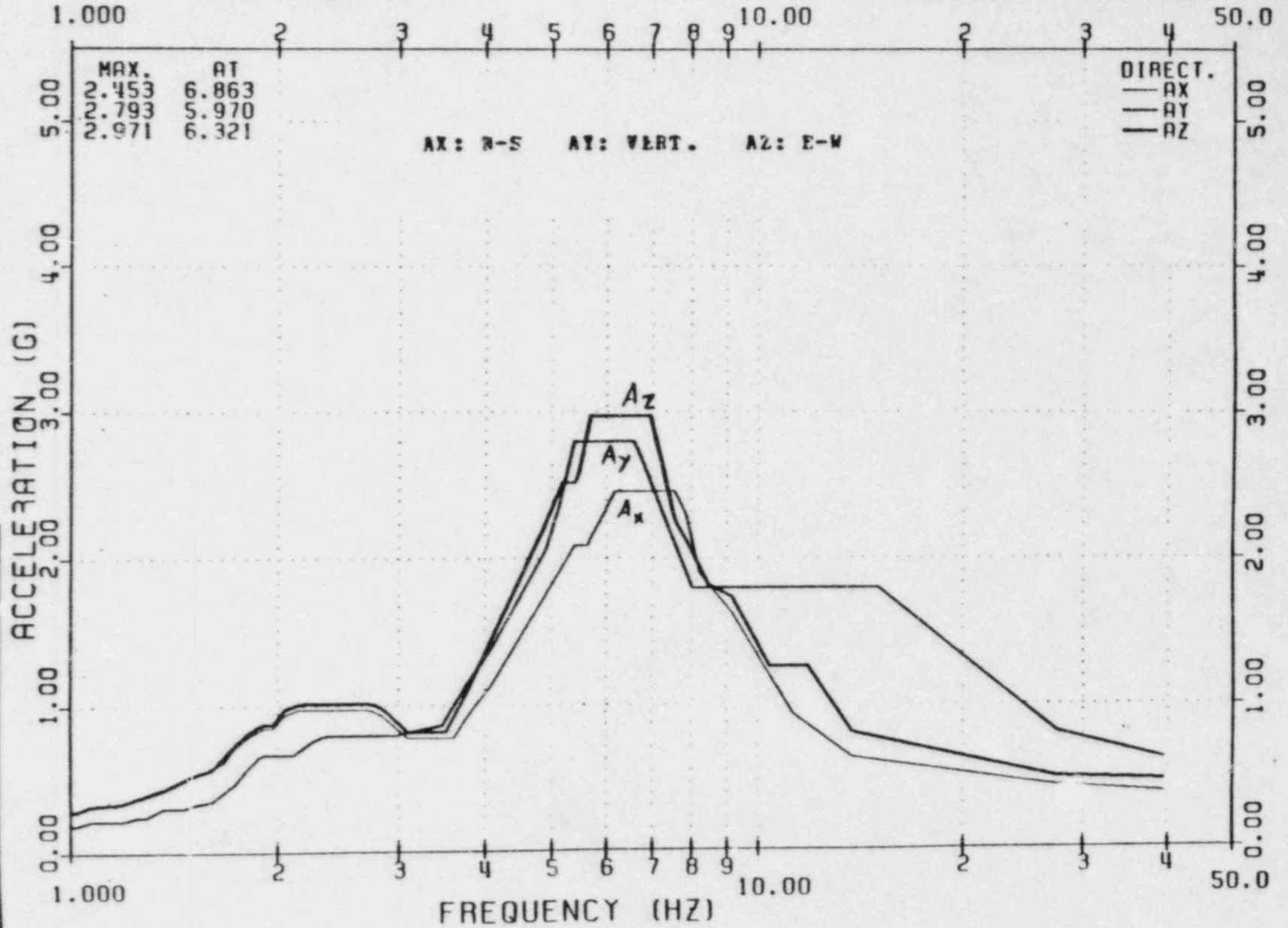
APPROV. STRUCT. DESIGN. ELEC. DES. & MFG. DES. P.A.

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, CONSULTANTS

JOB NO. 2323

FIGURE-109B



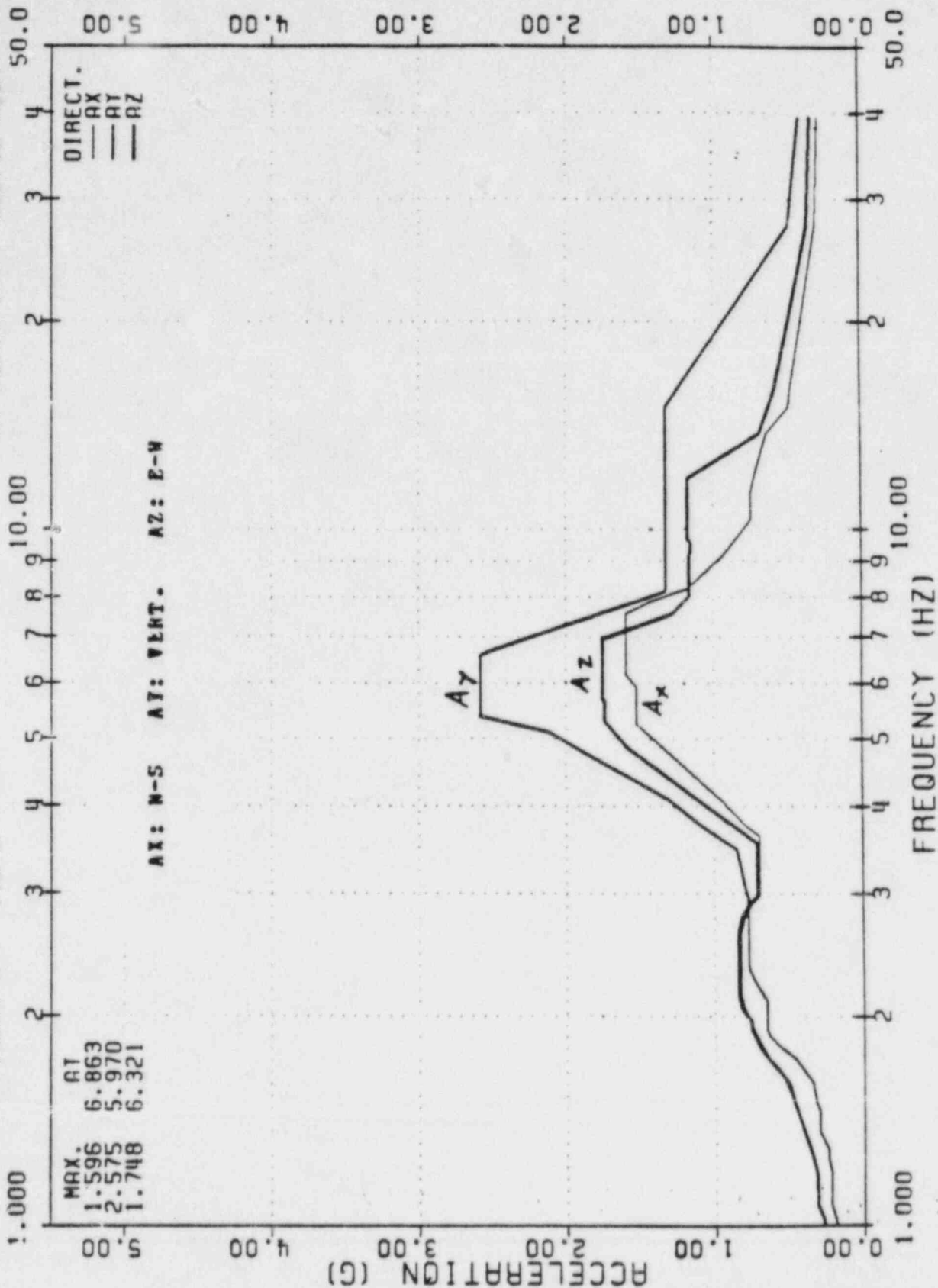
# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSE:

DAMPING = 0.03

FIGURE NO. 110-B

AT ELEVATION 832.50 FEET



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

JOB NO 2325

FIGURE-110 B

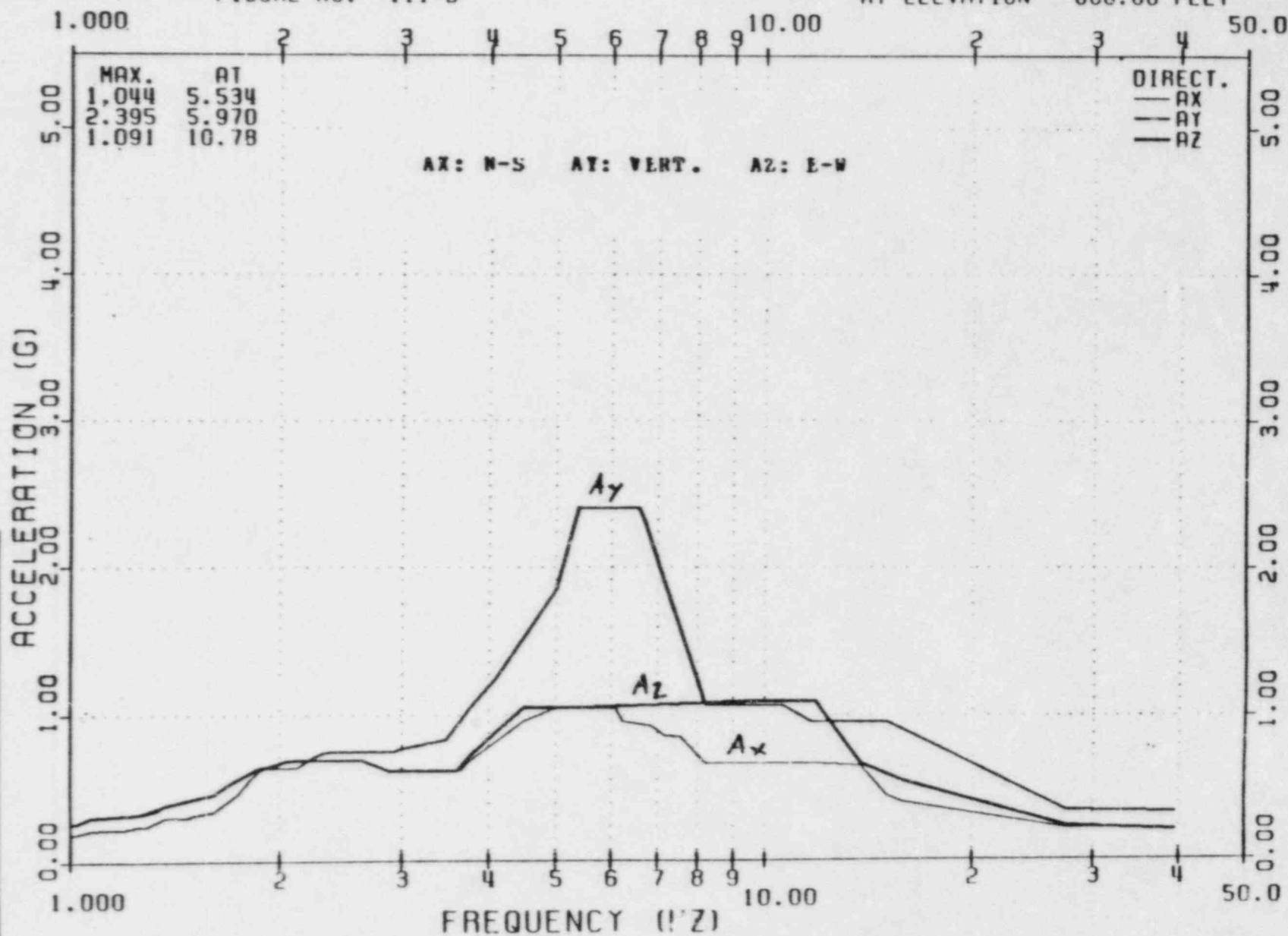
DATE P.L.B. CHG. 100.

ISSUE

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



TUSI-R.B. INTERNAL STR.

REFINED RESPONSE SPECTRA

GIBBS & HILL, INC.

ENGINEERS, DESIGNERS, CONSTRUCTORS

Job No. 2325

FIGURE-111B

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DATE

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11/18/68

11/18/68

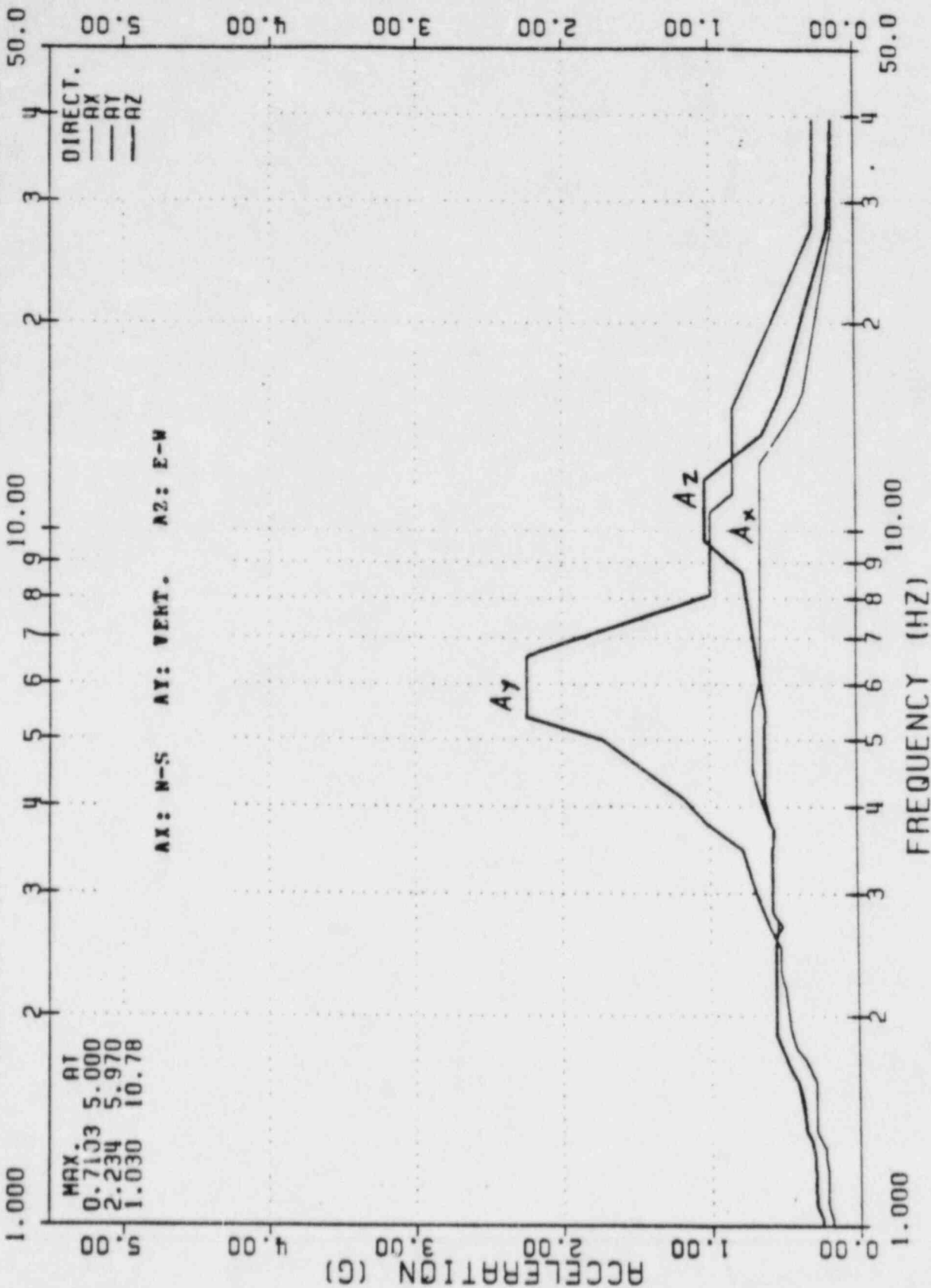
# TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT.

FLOOR RESPONSE SPECTRA FOR SSE;

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

DATE PLTD. CHRG. FOR

ISSUE NO.

APPROVALS

ISSUED FOR

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

SET NO. = 1

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.  
FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX ; DAMPING = 0.01  
FIGURE NO. 126-B DIRECTION 1 AT ELEVATION 885.50 FEET

SET NO. = 2

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.  
FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX ; DAMPING = 0.01  
FIGURE NO. 127-B DIRECTION 1 AT ELEVATION 860.00 FEET

SET NO. = 3

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.  
FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX ; DAMPING = 0.01

SET NO. = 4

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
5	1.3160	0.22199	6	1.3235	0.22656	7	1.3637	0.32639
9	1.6371	0.33869	10	1.6667	0.36454	11	1.7308	0.49001
13	1.8750	0.62445	14	1.9132	0.64544	15	2.0852	0.64544
17	2.6191	0.74720	18	2.6849	0.61239	19	2.8111	0.56359
21	3.4574	0.55373	22	3.6666	0.55373	23	3.6673	0.55290
25	4.0909	0.63784	26	4.7500	1.32189	27	5.6881	1.32189
29	5.8517	1.54907	30	6.1771	1.95886	31	7.5497	1.95886
33	7.9020	1.36768	34	8.0763	1.36768	35	9.1666	0.71252
37	11.2820	0.59867	38	11.6897	0.57347	39	11.8535	0.56138
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.  
FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX; DAMPING = 0.01

SET NO. = 5

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
5	1.3214	0.21365	6	1.3235	0.21498	7	1.3637	0.31012
9	1.6652	0.32063	10	1.6667	0.32160	11	1.7308	0.42287
13	1.8750	0.50544	14	1.9132	0.56487	15	2.1009	0.56487
17	2.6191	0.61674	18	2.6849	0.49417	19	2.6983	0.48656
21	3.0000	0.49015	22	3.6666	0.49015	23	3.6736	0.48202
25	4.0909	0.53462	26	4.5000	1.01385	27	5.5000	1.01385
29	7.5497	0.88917	30	7.8572	0.69463	31	7.9279	0.56883
33	8.0765	0.56874	34	11.2820	0.56874	35	11.6897	0.55182
37	13.7500	0.43998	38	15.0273	0.31328	39	27.5000	0.12729
40						40	39.5000	0.11765

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.  
FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX; DAMPING = 0.01

SET NO. = 6

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
5	1.3095	0.20529	6	1.3227	0.20351	7	1.3235	0.20351
9	1.4062	0.30250	10	1.6853	0.30250	11	1.7308	0.35636
13	1.9132	0.48435	14	2.1404	0.48435	15	2.1429	0.48610
17	2.6618	0.41419	18	2.9678	0.41419	19	3.0000	0.46983
21	3.7121	0.41713	22	3.7500	0.41713	23	4.0909	0.44196
25	5.5000	0.73744	26	6.0562	0.54585	27	11.2820	0.54585
29	13.7500	0.45054	30	15.0273	0.29528	31	27.5000	0.07961
32						32	39.5000	0.07787

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.  
FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AY; DAMPING = 0.01

SET NO. = 7

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
5	1.2963	0.15963	6	1.3235	0.17642	7	1.3637	0.22743
9	1.6114	0.23135	10	1.6667	0.26979	11	1.8750	0.65584
13	1.9132	0.71186	14	2.3102	0.71186	15	2.3190	0.73272
17	2.8380	0.73632	18	3.0556	0.71805	19	3.1271	0.64480
21	3.7500	0.94958	22	4.0991	0.94958	23	4.7000	2.16717
25	5.1049	2.32019	26	5.4711	2.70820	27	6.1664	2.70820
29	7.5497	2.72372	30	7.8572	2.29959	31	14.3000	2.29959
32						32	27.5000	0.80000



33 39.5000 0.68576

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

SET NO. = 8

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	3	1.0240	4	1.0714
5	1.2969	0.15890	6	1.3235	7	1.3637	8	1.4062
9	1.6129	0.22948	10	1.6667	11	1.8000	12	1.8750
13	1.9129	0.69974	14	1.9132	15	2.3126	16	2.3190
17	2.3220	0.71810	18	2.8380	19	3.0556	20	3.1235
21	3.5133	0.63625	22	3.7500	23	4.1059	24	4.7000
25	5.0442	2.02630	26	5.1049	27	5.3731	28	5.4711
29	6.6869	2.55397	30	6.9294	31	7.5497	32	7.8572
33	15.0273	1.97707	34	27.5000	35	39.5000		1.97707

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

SET NO. = 9

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	3	1.0242	4	1.0714
5	1.2976	0.15800	6	1.3235	7	1.3637	8	1.4062
9	1.6150	0.22715	10	1.6667	11	1.8000	12	1.8750
13	1.9129	0.68467	14	1.9132	15	2.3159	16	2.3190
17	2.3220	0.69519	18	2.8380	19	3.0556	20	3.1186
21	3.5218	0.62549	22	3.7500	23	4.1155	24	4.7000
25	5.0666	1.85575	26	5.1049	27	5.3731	28	5.4711
29	6.6869	2.36734	30	7.1521	31	7.5497	32	7.8572
33	10.6383	1.58018	34	11.2820	35	15.0273	36	27.5000
37	39.5000	0.40927		1.57208		1.57208		0.54078

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

SET NO. = 10

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	3	1.0244	4	1.0714
5	1.2985	0.15706	6	1.3235	7	1.3637	8	1.4062
9	1.6173	0.22465	10	1.6667	11	1.8000	12	1.8750
13	1.9129	0.66845	14	1.9132	15	2.3202	16	2.3220
17	2.8380	0.67054	18	3.0556	19	3.1129	20	3.5269
21	3.7500	0.85789	22	4.1274	23	4.7000	24	5.0901
25	5.1049	1.71229	26	5.3731	27	5.4711	28	6.6869
29	7.8572	1.35527	30	10.6383	31	11.2820	32	15.0273
33	27.5000	0.31579	34	39.5000		0.25528		1.13822

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

SET NO. = 11

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	3	1.0245	4	1.0714
5	1.2992	0.15623	6	1.3235	7	1.3637	8	1.4062
9	1.6195	0.22246	10	1.6667	11	1.8000	12	1.8750
13	1.9129	0.65402	14	1.9132	15	2.3384	16	2.3430

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.

FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AY; DAMPING = 0.01

FIGURE NO. 130-B

DIRECTION 2

AT ELEVATION 783.58 FEET

SET NO. = 12

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.

FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ; DAMPING = 0.01

FIGURE NO. 125-B

DIRECTION 3

AT ELEVATION 905.75 FEET

SET NO. = 13

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.

FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ; DAMPING = 0.01

FIGURE NO. 126-B

DIRECTION 3

AT ELEVATION 885.50 FEET

SET NO. = 14

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	0.73486
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.

FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ; DAMPING = 0.01

SET NO. = 15

5

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
5	1.3059	0.23274	6	1.3235	0.24339	7	1.3637	0.34865
9	1.6153	0.36988	10	1.6667	0.42719	11	1.7308	0.58384
13	1.8750	0.78983	14	1.9129	0.80439	15	2.0895	0.80439
17	2.6191	0.93489	18	2.6849	0.78562	19	2.8344	0.75836
21	3.4375	0.71234	22	3.5076	0.65440	23	3.6142	0.65440
25	4.0909	1.10259	26	4.9000	2.61779	27	5.4375	2.61779
29	5.6890	3.43499	30	6.9532	3.43499	31	7.1755	3.42614
33	8.4811	1.59636	34	9.1666	1.59265	35	10.4575	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.

FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ ; DAMPING = 0.01

SET NO. = 16

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
5	1.3138	0.22215	6	1.3235	0.22820	7	1.3637	0.32791
9	1.6373	0.34451	10	1.6667	0.37168	11	1.7308	0.49953
13	1.8750	0.63897	14	1.9129	0.65756	15	2.0815	0.65756
17	2.6191	0.76876	18	2.6849	0.63236	19	2.7666	0.59363
21	3.4771	0.56766	22	3.6408	0.56766	23	4.0909	0.84158
25	5.6653	1.87452	26	5.6890	1.95485	27	6.9532	1.95485
29	7.1755	1.91007	30	7.8373	1.05380	31	9.1666	1.05380
33	11.8535	0.95485	34	13.7500	0.46229	35	15.8273	0.38696
37	39.5000	0.20187						

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.

FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ ; DAMPING = 0.01

SET NO. = 17

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
5	1.3203	0.21272	6	1.3235	0.21479	7	1.3637	0.30943
9	1.6662	0.32191	10	1.6667	0.32225	11	1.7308	0.42443
13	1.8750	0.50460	14	1.9129	0.56322	15	2.0964	0.56322
17	2.6191	0.62075	18	2.6849	0.49582	19	2.6959	0.48932
21	3.0000	0.49375	22	3.7061	0.49375	23	3.7500	0.51429
25	4.5000	1.21267	26	5.5000	1.21267	27	6.0000	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.

FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ ; DAMPING = 0.01

SET NO. = 18

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
5	1.3230	0.20475	6	1.3235	0.20511	7	1.3637	0.29244
9	1.6850	0.30149	10	1.7308	0.35439	11	1.8750	0.43843
13	2.1318	0.47724	14	2.1429	0.48517	15	2.6191	0.48517
17	2.9626	0.40268	18	3.0000	0.46605	19	3.6666	0.46605
21	4.0946	0.42469	22	4.5000	0.65267	23	8.7041	0.65267
25	9.6983	0.84258	26	11.8535	0.84258	27	13.7500	0.44265
29	27.5000	0.09236	30	39.5000	0.07898			

## TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.

FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX; DAMPING = 0.02

FIGURE NO. 131-B

DIRECTION 1

AT ELEVATION 905.75 FEET

SET NO. = 1

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.

FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX; DAMPING = 0.02

FIGURE NO. 132-B

DIRECTION 1

AT ELEVATION 885.50 FEET

SET NO. = 2

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.

FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX; DAMPING = 0.02

FIGURE NO. 133-B

DIRECTION 1

AT ELEVATION 860.00 FEET

SET NO. = 3

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.  
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX ; DAMPING = 0.02  
 FIGURE NO. 135-B DIRECTION 1 AT ELEVATION 808.00 FEET SET NO. = 5  
 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.  
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AX ; DAMPING = 0.02  
 FIGURE NO. 136-B DIRECTION 1 AT ELEVATION 783.58 FEET SET NO. = 6  
 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	5.5000	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.  
 FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AY ; DAMPING = 0.02  
 FIGURE NO. 131-B DIRECTION 2 AT ELEVATION 905.75 FEET SET NO. = 7  
 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.  
FLOOR RESPONSE SPECTRA FOR 1/2SSSE; COMPONENT AY ; DAMPING = 0.02  
FIGURE NO. 132-B DIRECTION 2 AT ELEVATION 885.50 FEET SET NO. = 8  
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
5	1.2500	0.13664	6	1.2922	0.13664	7	1.3637	0.18502
9	1.6071	0.20446	10	1.6667	0.23861	11	1.7308	0.30585
13	1.8750	0.50021	14	1.9129	0.51904	15	2.3099	0.51904
17	2.3220	0.52530	18	2.3684	0.52893	19	2.8948	0.52893
21	3.1312	0.47704	22	3.3202	0.47704	23	3.4616	0.49604
25	4.0909	0.83796	26	4.5000	1.46286	27	5.1049	1.72050
29	6.5671	2.04887	30	6.6869	1.96054	31	7.0766	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.  
FLOOR RESPONSE SPECTRA FOR 1/2SSSE; COMPONENT AY ; DAMPING = 0.02  
FIGURE NO. 133-B DIRECTION 2 AT ELEVATION 860.00 FEET SET NO. = 9  
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
5	1.2500	0.13543	6	1.2925	0.13543	7	1.3637	0.18349
9	1.6071	0.20130	10	1.6667	0.23430	11	1.7308	0.30034
13	1.8750	0.48941	14	1.9129	0.50862	15	2.3193	0.50862
17	2.3684	0.51439	18	2.8948	0.51439	19	3.0556	0.48688
21	3.3243	0.46790	22	3.4616	0.48549	23	3.7500	0.71086
25	4.5000	1.34591	26	5.1049	1.55244	27	5.3731	1.89881
29	6.6869	1.80860	30	7.1521	1.43344	31	7.5497	1.26909
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.  
FLOOR RESPONSE SPECTRA FOR 1/2SSSE; COMPONENT AY ; DAMPING = 0.02  
FIGURE NO. 134-B DIRECTION 2 AT ELEVATION 832.50 FEET SET NO. = 10  
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
5	1.2500	0.13414	6	1.2927	0.13414	7	1.3637	0.18186
9	1.6071	0.19791	10	1.6667	0.22970	11	1.7308	0.29441
13	1.8750	0.47779	14	1.9129	0.49739	15	2.3379	0.49739
17	2.3579	0.49735	18	2.3684	0.49875	19	2.8948	0.49875
21	3.1120	0.45804	22	3.3257	0.45804	23	3.4616	0.47505
25	4.0909	0.73825	26	4.5000	1.22663	27	4.7493	1.26317
29	5.3731	1.74588	30	6.5671	1.74588	31	7.8240	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.  
FLOOR RESPONSE SPECTRA FOR 1/2SSSE; COMPONENT AY ; DAMPING = 0.02  
FIGURE NO. 135-B DIRECTION 2 AT ELEVATION 808.00 FEET SET NO. = 11  
NO. OF SPECTRA = 1

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

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

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 885.50 FEET NO. OF SPECTRA = 1

40

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

SET NO. = 15

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.  
FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ ; DAMPING = 0.02  
FIGURE NO. 134-B DIRECTION 3 AT ELEVATION 832.50 FEET

SET NO. = 16

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.  
FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ ; DAMPING = 0.02  
FIGURE NO. 135-B DIRECTION 3 AT ELEVATION 808.00 FEET

SET NO. = 17

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.  
FLOOR RESPONSE SPECTRA FOR 1/2SSE; COMPONENT AZ ; DAMPING = 0.02  
FIGURE NO. 136-B DIRECTION 3 AT ELEVATION 783.58 FEET

SET NO. = 18

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	6.7041	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.

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.02

FIGURE NO. 101-B

DIRECTION 1

AT ELEVATION 905.75 FEET

SET NO. = 1

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.

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.02

FIGURE NO. 102-B

DIRECTION 1

AT ELEVATION 885.50 FEET

SET NO. = 2

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.

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.02

FIGURE NO. 103-B

DIRECTION 1

AT ELEVATION 860.00 FEET

SET NO. = 3

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.

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02

SET NO. = 4

FIGURE NO. 104-B

DIRECTION 1

AT ELEVATION 832.50 FEET

NO. OF SPECTRA = 1

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

## TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02

SET NO. = 5

FIGURE NO. 105-B

DIRECTION 1

AT ELEVATION 808.00 FEET

NO. OF SPECTRA = 1

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

## TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; DAMPING = 0.02

SET NO. = 6

FIGURE NO. 106-B

DIRECTION 1

AT ELEVATION 783.58 FEET

NO. OF SPECTRA = 1

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

## TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; DAMPING = 0.02

SET NO. = 7

FIGURE NO. 101-B

DIRECTION 2

AT ELEVATION 905.75 FEET

NO. OF SPECTRA = 1

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

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY ; DAMPING = 0.02

FIGURE NO. 192-B

DIRECTION 2

AT ELEVATION 885.50 FEET

SET NO. = 8

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.

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY ; DAMPING = 0.02

FIGURE NO. 103-B

DIRECTION 2

AT ELEVATION 860.00 FEET

SET NO. = 9

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.

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY ; DAMPING = 0.02

FIGURE NO. 104-B

DIRECTION 2

AT ELEVATION 832.50 FEET

SET NO. = 10

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.

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY ; DAMPING = 0.02

FIGURE NO. 105-B

DIRECTION 2

AT ELEVATION 808.00 FEET

SET NO. = 11

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 = 0.020		
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	0.34194
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.  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.02  
FIGURE NO. 103-B DIRECTION 3 AT ELEVATION 860.00 FEET

SET NO. = 15

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
5	1.0714	0.38086	6	1.2159	0.38086	7	1.2500	0.39894
9	1.3637	0.53692	10	1.4062	0.55778	11	1.4802	0.55778
13	1.6071	0.61778	14	1.6667	0.70767	15	1.7308	0.86794
17	2.0080	1.11444	18	2.1429	1.28058	19	2.6191	1.28058
21	2.7500	1.13392	22	2.7521	1.13384	23	2.8344	1.08978
25	2.9732	0.95973	26	3.4375	0.55973	27	3.4791	0.94343
29	4.0909	1.74862	30	4.8500	2.87089	31	4.9000	2.94090
33	5.4711	3.07834	34	5.6890	3.60851	35	6.9532	3.60851
37	7.5497	2.66327	38	7.8572	2.51557	39	8.4811	2.13720
41	10.2825	1.52076	42	11.8535	1.52076	43	13.7500	0.85871
45	39.5000	0.47224						

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

SET NO. = 16

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
5	1.0714	0.36387	6	1.2284	0.36387	7	1.2500	0.37341
9	1.3637	0.50427	10	1.4062	0.51952	11	1.4973	0.51952
13	1.6071	0.55971	14	1.6667	0.62287	15	1.7308	0.75866
17	2.0173	0.96119	18	2.1429	1.06847	19	2.6191	1.06847
21	2.7500	0.90975	22	2.7521	0.90915	23	2.8344	0.86855
25	2.9028	0.83062	26	3.4375	0.83062	27	3.4715	0.82019
29	3.7500	1.02186	30	4.0909	1.34963	31	4.9000	2.07557
33	5.6890	2.12086	34	6.9532	2.12086	35	7.1521	1.83398
37	9.4659	1.37492	38	9.5643	1.39747	39	9.6983	1.42668
41	13.7500	0.76349	42	15.8273	0.64275	43	27.5000	0.36263

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

SET NO. = 17

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
5	1.0714	0.35220	6	1.2507	0.35220	7	1.3235	0.37923
9	1.4062	0.48542	10	1.5389	0.48542	11	1.6071	0.50797
13	1.9129	0.82466	14	2.0370	0.82466	15	2.1429	0.87951
17	2.6849	0.72507	18	2.7500	0.71004	19	2.7890	0.71004
21	2.9915	0.71754	22	3.0000	0.72643	23	3.6267	0.72643
25	4.0909	0.99439	26	4.5000	1.36742	27	5.5000	1.36742
29	10.8000	1.34296	30	13.7500	0.75275	31	15.8273	0.60957
33	39.5000	0.21008						

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

SET NO. = 18

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



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.

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03

SET NO. = 1

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
5	1.1842	0.35890	6	1.3637	0.46672	7	1.4516	0.52963
9	1.6071	0.64417	10	1.7308	0.85522	11	1.8000	0.94096
13	1.9132	1.03112	14	1.9605	1.03112	15	2.0454	1.17014
17	2.1967	1.24160	18	2.6849	1.24160	19	2.7521	1.23807
21	3.0556	1.00114	22	3.1342	0.92601	23	3.5954	0.92601
25	4.0909	1.44999	26	4.7493	2.60457	27	4.9806	3.00582
29	5.5551	3.02545	30	5.6250	3.17942	31	5.6890	3.28984
33	6.1771	3.88934	34	7.5497	3.88934	35	7.8572	3.72513
37	9.1666	2.80025	38	11.2820	1.45800	39	13.7500	0.89437
41	39.5000	0.58541				40	15.8273	0.78833

## TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03

SET NO. = 2

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
5	1.1250	0.34134	6	1.1842	0.34723	7	1.4516	0.50279
9	1.6667	0.66906	10	1.7308	0.79265	11	1.8000	0.86900
13	1.9132	0.95089	14	1.9615	0.95089	15	2.0454	1.06823
17	2.1967	1.12302	18	2.6849	1.12302	19	2.7521	1.11660
21	3.1146	0.86209	22	3.6021	0.86209	23	3.7500	1.02303
25	5.4000	2.60809	26	5.5814	2.60809	27	5.6250	2.68696
29	5.8517	2.94252	30	6.1771	3.25288	31	7.5497	3.25288
33	8.2090	2.57895	34	9.1666	2.28231	35	11.2820	1.22295
37	27.5000	0.56032	38	39.5000	0.49268	36	13.7500	0.76322

## TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03

SET NO. = 3

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
5	1.1842	0.33253	6	1.3637	0.42750	7	1.6667	0.61475
9	1.6000	0.77845	10	1.8750	0.83420	11	1.9132	0.84989
13	2.0454	0.93992	14	2.1429	0.97699	15	2.6191	0.97699
17	2.7500	0.96412	18	2.7521	0.96366	19	2.8380	0.93180
21	3.6124	0.78184	22	3.7500	0.91043	23	4.0909	1.14026
25	5.6399	2.08375	26	5.6890	2.12767	27	5.8517	2.24249
29	7.5497	2.45321	30	7.8572	2.28858	31	8.2090	1.90195
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.

FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX ; DAMPING = 0.03

SET NO. = 4

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	0.9375	0.25405	3	1.0228	0.27628	4	1.0714	0.31369	4	1.0714	0.31369	0.030
5	1.842	0.31670	6	1.3637	0.40394	7	1.5000	0.46721	8	1.6667	0.55894	8	1.6667	0.55894	0.030
9	1.7308	0.62909	10	1.8000	0.68092	11	1.9132	0.74102	12	2.0454	0.80160	12	2.0454	0.80160	0.030
13	2.1429	0.82253	14	2.6191	0.82253	15	2.6849	0.81278	15	2.7500	0.79960	15	2.7500	0.79960	0.030
17	2.8380	0.77104	18	2.8948	0.74559	19	2.9755	0.69570	20	3.6273	0.69570	20	3.6273	0.69570	0.030
21	3.7500	0.79025	22	4.0909	0.95733	23	5.2500	1.52694	24	5.9228	1.52694	24	5.9228	1.52694	0.030
25	6.1771	1.59626	26	7.5497	1.59626	27	7.8572	1.43968	28	8.2090	1.17701	28	8.2090	1.17701	0.030
29	9.1666	0.93425	30	10.3378	0.74726	31	11.2820	0.74726	32	11.6897	0.73235	32	11.6897	0.73235	0.030
33	11.8535	0.72528	34	13.7500	0.64025	35	15.0273	0.48987	36	15.8273	0.48038	36	15.8273	0.48038	0.030
37	27.5000	0.29941	38	39.5000	0.27788										

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; 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	0.9375	0.24761	3	1.0228	0.26729	4	1.0714	0.30487	4	1.0714	0.30487	0.030
5	1.2500	0.32532	6	1.3637	0.38296	7	1.6071	0.46127	8	1.6667	0.50924	8	1.6667	0.50924	0.030
9	1.7308	0.55363	10	1.8750	0.63928	11	2.0454	0.67842	12	2.1429	0.68501	12	2.1429	0.68501	0.030
13	2.6191	0.68501	14	2.6849	0.66945	15	2.7500	0.65310	16	2.8711	0.61945	16	2.8711	0.61945	0.030
17	3.6451	0.61945	18	3.7500	0.68515	19	4.5000	0.95757	20	4.7493	1.00471	20	4.7493	1.00471	0.030
21	4.9806	1.04378	22	6.0874	1.04378	23	6.2393	0.95583	24	6.8750	0.92517	24	6.8750	0.92517	0.030
25	7.1755	0.85175	26	7.5497	0.85156	27	8.2090	0.66560	28	11.6897	0.66560	28	11.6897	0.66560	0.030
29	11.8535	0.66497	30	13.7500	0.64815	31	15.0273	0.44498	32	15.8273	0.39811	32	15.8273	0.39811	0.030
33	27.5000	0.21390	34	39.5000	0.20876										

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AX; 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	0.9375	0.24134	3	1.0228	0.25855	4	1.0714	0.29624	4	1.0714	0.29624	0.030
5	1.2500	0.30690	6	1.3235	0.32785	7	1.3637	0.36187	8	1.6071	0.41541	8	1.6071	0.41541	0.030
9	1.6667	0.45946	10	1.8750	0.56223	11	2.2916	0.56223	12	2.5000	0.55511	12	2.5000	0.55511	0.030
13	2.6191	0.54721	14	2.7421	0.54721	15	2.8125	0.58253	16	3.4375	0.58253	16	3.4375	0.58253	0.030
17	3.6666	0.57075	18	3.7044	0.57075	19	3.7500	0.58886	20	4.0909	0.65660	20	4.0909	0.65660	0.030
21	4.5000	0.71028	22	5.5000	0.71028	23	6.1112	0.65414	24	12.5000	0.65414	24	12.5000	0.65414	0.030
25	15.0273	0.40654	26	15.8273	0.35668	27	27.5000	0.15320	28	39.5000	0.14962	28	39.5000	0.14962	0.030

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.  
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AY; 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	2	1.0228	0.19366	3	1.0714	0.22249	4	1.1250	0.22270	4	1.1250	0.22270	0.030
5	1.1927	0.22270	6	1.2500	0.24647	7	1.2890	0.24647	8	1.3235	0.27812	8	1.3235	0.27812	0.030
9	1.3637	0.30850	10	1.4588	0.30850	11	1.5000	0.33218	12	1.6071	0.35802	12	1.6071	0.35802	0.030
13	1.7308	0.48048	14	1.8000	0.58346	15	1.8750	0.67520	16	1.9129	0.68625	16	1.9129	0.68625	0.030
17	1.9132	0.68629	18	2.0962	0.68629	19	2.1429	0.72104	20	2.1967	0.75983	20	2.1967	0.75983	0.030
21	2.2503	0.79467	22	2.2517	0.79569	23	2.3190	0.83051	24	2.3220	0.83156	24	2.3220	0.83156	0.030
25	2.3684	0.84053	26	2.8948	0.84053	27	2.9988	0.82670	28	3.0000	0.82670	28	3.0000	0.82670	0.030
29	3.4616	0.89459	30	3.7500	1.21265	31	4.0909	1.54095	32	4.8500	2.34141	32	4.8500	2.34141	0.030
33	5.0000	2.53774	34	5.1049	2.74531	35	5.3731	3.18560	36	6.5671	3.18560	36	6.5671	3.18560	0.030
37	6.6869	3.12637	38	6.8750	2.95716	39	6.9532	2.88489	40	7.1521	2.67241	40	7.1521	2.67241	0.030
41	7.5497	2.59441	42	15.0273	2.59441	43	27.5000	1.34332	44	39.5000	1.02598	44	39.5000	1.02598	0.030

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
5	1.1929	0.22164	6	1.2500	0.24491	7	1.2892	0.24491
9	1.3637	0.30658	10	1.4610	0.30658	11	1.5000	0.32845
13	1.7308	0.47376	14	1.8000	0.57574	15	1.8750	0.66464
17	1.9132	0.67588	18	2.1029	0.67588	19	2.1967	0.74331
21	2.2517	0.77928	22	2.3190	0.81161	23	2.3220	0.81257
25	2.8948	0.82035	26	2.9460	0.81422	27	3.0000	0.81422
29	3.7500	1.17658	30	4.0909	1.47319	31	4.8000	2.21380
33	5.1049	2.56252	34	5.3731	3.00819	35	6.5671	3.00819
37	6.9532	2.68915	38	7.8572	2.23864	39	15.0273	2.23864
41	39.5000	0.84643				40	27.5000	1.10396

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
5	1.1930	0.22032	6	1.2500	0.24296	7	1.2895	0.24296
9	1.3637	0.30418	10	1.4639	0.30418	11	1.5000	0.32382
13	1.7308	0.46534	14	1.8000	0.56606	15	1.8750	0.65138
17	1.9132	0.66282	18	2.1085	0.66282	19	2.2517	0.75869
21	2.3220	0.78874	22	2.3684	0.79503	23	2.9876	0.79503
25	3.4616	0.86160	26	3.7500	1.13270	27	4.0909	1.39178
29	5.1049	2.34087	30	5.3731	2.79339	31	6.5671	2.79339
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
5	1.1935	0.21904	6	1.2500	0.24089	7	1.2899	0.24089
9	1.3637	0.30162	10	1.4672	0.30162	11	1.5000	0.31890
13	1.7308	0.45631	14	1.8000	0.55567	15	1.8750	0.63713
17	1.9132	0.54877	18	2.1099	0.64877	19	2.2517	0.73659
21	2.3220	0.76315	22	2.3684	0.76784	23	2.9519	0.76784
25	3.4616	0.84298	26	3.7500	1.08751	27	4.0909	1.30974
29	5.1049	2.11569	30	5.3731	2.57507	31	6.5671	2.57507
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
5	1.1942	0.21800	6	1.2500	0.23907	7	1.2902	0.23907
9	1.3637	0.29935	10	1.4702	0.29935	11	1.5000	0.31458
13	1.7308	0.44832	14	1.8000	0.54645	15	1.8750	0.62447
17	1.9132	0.63630	18	2.1114	0.63630	19	2.2517	0.71700
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
5	1.2016	0.21494	6	1.2500	0.23171	7	1.2906	0.23171
9	1.3637	0.28844	10	1.5506	0.28844	11	1.6071	0.28951
13	1.8000	0.42431	14	1.8750	0.45202	15	1.9129	0.46113
17	2.1967	0.49536	18	2.2500	0.51419	19	2.2517	0.51478
21	2.3220	0.52437	22	2.3684	0.52581	23	2.5054	0.52581
25	3.0000	0.68685	26	3.4616	0.77531	27	3.7500	1.00538
29	5.0000	1.72943	30	5.3731	2.23355	31	6.5671	2.23355
33	8.0785	0.99004	34	10.6383	0.99004	35	11.2971	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
5	1.1842	0.37124	6	1.4062	0.50647	7	1.5000	0.61246
9	1.7308	0.88532	10	1.8000	0.99076	11	1.8750	1.07434
13	1.9695	1.08429	14	2.0454	1.22808	15	2.1429	1.29633
17	2.2517	1.33305	18	2.7521	1.33305	19	2.8344	1.29164
21	3.1226	0.99851	22	3.4375	0.99851	23	3.4857	0.99851
25	4.2000	2.14008	26	5.0000	3.80892	27	5.2443	3.80892
29	5.6890	5.00694	30	6.9532	5.00694	31	7.1521	4.64365
33	7.8572	3.71616	34	10.6383	1.89162	35	11.8535	1.40593
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
5	1.1842	0.35730	6	1.4062	0.48241	7	1.5000	0.57375
9	1.7308	0.81673	10	1.8000	0.90860	11	1.8750	0.97886
13	1.9697	0.99263	14	2.0454	1.11541	15	2.1429	1.17058
17	2.2517	1.19084	18	2.7521	1.19084	19	2.8344	1.15330
21	3.1105	0.91865	22	3.4978	0.91865	23	3.7500	1.25023
25	4.7000	2.75016	26	5.0000	3.23534	27	5.2879	3.23534
29	5.6890	4.10600	30	6.9532	4.10600	31	7.1521	3.79683
33	7.8572	3.00677	34	11.2820	1.34263	35	11.8535	1.34068
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 =				0.030
1	0.9000	0.25366	2	0.9375	0.26805	3	1.0228	0.28886	4	1.0714	0.32610					
5	1.1842	0.33974	6	1.3637	0.43440	7	1.5000	0.52501	8	1.6071	0.56925					
9	1.7308	0.73037	10	1.8000	0.80516	11	1.8750	0.85866	12	1.9129	0.87720					
13	1.9701	0.87720	14	2.0454	0.97354	15	2.1429	1.01225	16	2.1967	1.01434					
17	2.6849	1.01434	18	2.7500	1.01201	19	2.7521	1.01176	20	2.8344	0.97910					
21	2.8948	0.94330	22	3.0861	0.81812	23	3.5181	0.81812	24	3.7500	1.07371					
25	4.8500	2.19021	26	5.1800	2.51307	27	5.4027	2.51307	28	5.4711	2.57817					
29	5.6890	2.97150	30	6.9532	2.97150	31	7.1521	2.73045	32	7.5497	2.26221					
33	7.8572	2.11345	34	8.4811	1.81676	35	9.1666	1.73399	36	10.4165	1.25858					
37	11.8535	1.25858	38	13.7500	0.80377	39	27.5000	0.49594	40	19.5000	0.47037					

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.  
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; DAMPING = 0.03  
 FIGURE NO. 110-B DIRECTION 3 AT ELEVATION 832.50 FEET

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.										SET NO. = 1		
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; DAMPING = 0.03										NO. OF SPECTRA = 1		
FIGURE NO. 110-B										DIRECTION 3		
BROADENED SPECTRUM FOR MODE= 110										AT ELEVATION 832.50 FEET		
										DEGREE OF FREEDOM =	NUMBER OF GRIDS = 38	DAMPING VALUE =
1	0.9000	0.24571	2	0.9375	0.25816	3	1.0228	0.27693	4	1.0714	0.31266	
5	1.1842	0.32082	6	1.2500	0.34706	7	1.3637	0.40697	8	1.5000	0.47244	
9	1.6071	0.51203	10	1.7308	0.63727	11	1.8000	0.69365	12	1.9129	0.75272	
13	1.9708	0.75272	14	2.0454	0.82054	15	2.1429	0.84149	16	2.6191	0.84149	
17	2.7500	0.81932	18	2.7521	0.81864	19	2.8344	0.79125	20	2.8948	0.76666	
21	2.9786	0.70977	22	3.5396	0.70977	23	4.8500	1.58646	24	5.3000	1.73420	
25	5.6710	1.73420	26	5.6890	1.74802	27	6.9532	1.74802	28	7.5497	1.28174	
29	8.0079	1.15888	30	9.1666	1.15888	31	9.2446	1.15018	32	9.5643	1.15018	
33	9.6983	1.17013	34	11.8535	1.17013	35	13.7500	0.68709	36	15.8273	0.58626	
37	27.5000	0.35588	38	39.5000	0.32929							

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.  
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; DAMPING = 0.03  
 FIGURE NO. 111-B DIRECTION 3 AT ELEVATION 808.00 FEET

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.															
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03															
FIGURE NO. 111-B															
DIRECTION 3				AT ELEVATION 808.00 FEET				NO. OF SPECTRA = 1				SET NO. = 17			
BROADENED SPECTRUM FOR MODE= 111				DEGREE OF FREEDOM =				NUMBER OF GRIDS = 27				DAMPING VALUE =			
1	0.9000	0.23863	2	0.9375	0.24935	3	1.0228	0.26631	4	1.0714	0.30411	0.030			
5	1.2500	0.32539	6	1.3235	0.34767	7	1.3637	0.38254	8	1.6071	0.46105	0.46105			
9	1.6667	0.51090	10	1.7308	0.55436	11	1.8750	0.64034	12	1.9129	0.61482	0.61482			
13	2.0454	0.68423	14	2.1429	0.68936	15	2.6191	0.68936	16	2.8745	0.61492	0.61492			
17	3.6019	0.61492	18	3.7500	0.71407	19	4.0909	0.87831	20	4.5000	1.04895	1.04895			
21	5.5000	1.04895	22	9.6983	1.09143	23	11.8535	1.09143	24	13.7500	0.66637	0.66637			
25	15.8273	0.54595	26	27.5000	0.23124	27	39.5000	0.20694							

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.															
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03															
FIGURE NO. 111-B															
DIRECTION 3				AT ELEVATION 808.00 FEET				NO. OF SPECTRA = 1				SET NO. = 18			
BROADENED SPECTRUM FOR MODE= 111				DEGREE OF FREEDOM =				NUMBER OF GRIDS = 27				DAMPING VALUE =			
1	0.9000	0.23863	2	0.9375	0.24935	3	1.0228	0.26631	4	1.0714	0.30411	0.030			
5	1.2500	0.32539	6	1.3235	0.34767	7	1.3637	0.38254	8	1.6071	0.46105	0.46105			
9	1.6667	0.51090	10	1.7308	0.55436	11	1.8750	0.64034	12	1.9129	0.61482	0.61482			
13	2.0454	0.68423	14	2.1429	0.68936	15	2.6191	0.68936	16	2.8745	0.61492	0.61492			
17	3.6019	0.61492	18	3.7500	0.71407	19	4.0909	0.87831	20	4.5000	1.04895	1.04895			
21	5.5000	1.04895	22	9.6983	1.09143	23	11.8535	1.09143	24	13.7500	0.66637	0.66637			
25	15.8273	0.54595	26	27.5000	0.23124	27	39.5000	0.20694							

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.  
 FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ; DAMPING = 0.03  
 FIGURE NO. 112-B DIRECTION 3 AT ELEVATION 783.58 FEET

TUSI-REFINED RESPONSE SPECTRA FOR INTERNAL STRUCT. OF R.B.										SET NO. =	18
FLOOR RESPONSE SPECTRA FOR SSE; COMPONENT AZ ; DAMPING = 0.03											
FIGURE NO. 112-B											
DIRECTION 3											
AT ELEVATION 783.58 FEET											
NO. OF SPECTRA = 1											
BROADENED SPECTRUM FOR MODE= 112										DAMPING VALUE =	0.030
1	0.9000	0.23268	2	0.9375	0.24173	3	1.0228	0.25709	4	1.0714	0.29717
5	1.2500	0.30592	6	1.3235	0.32626	7	1.3637	0.36055	8	1.5000	0.38223
9	1.6071	0.41380	10	1.6667	0.45855	11	1.8750	0.55962	12	2.2916	0.55962
13	2.2934	0.55917	14	2.5000	0.55917	15	2.6191	0.55109	16	2.6755	0.51562
17	2.6930	0.51562	18	2.8125	0.58199	19	3.4375	0.58199	20	3.6666	0.56766
21	3.7108	0.56766	22	3.7500	0.58296	23	4.0909	0.62922	24	5.0000	0.62922
25	5.5000	0.62418	26	8.7041	0.77191	27	9.2308	0.91541	28	9.5643	0.99808
29	9.6983	1.02951	30	11.8535	1.02951	31	13.7500	0.64084	32	15.8273	0.50483
33	27.5000	0.17782	34	39.5000	0.15374						